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**FINAL
DECISION DOCUMENT FOR THE
LF2/SARN/38-ACRE PARCEL FILL AREA
STUDY AREAS OF THE SURPLUS OPERABLE UNIT
FORT SHERIDAN, ILLINOIS**

June 8, 1999

Prepared for:

**U.S. ARMY ENVIRONMENTAL CENTER
Base Closure Division
Aberdeen Proving Ground, Maryland 21010-5401**

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13. ABSTRACT (Maximum 200 words) This Decision Document has been prepared for the Landfill 2 (LF2)/Small Arms Range North (SARN)/38-Acre Parcel Fill Area study areas of the Surplus Operable Unit (OU), Fort Sheridan, Illinois. This Decision Document addresses only these study areas of the Surplus OU. The Decision Document presents the Army's determination that No Response Action is necessary for the LF2/SARN/38-Acre Parcel Fill Area study areas. The baseline risk assessment determined that no unacceptable potential human health or ecological risks are associated with these study areas. Therefore, No Response Action is necessary at the LF2/SARN/38-Acre Parcel Fill Area study areas for the protection of human health and the environment. The Decision Document explains the factual and legal basis for the determination that No Response Action is necessary for these study areas. The information supporting this No Response Action decision is contained the Administrative Record for the Surplus OU.			
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DEFENSE ENVIRONMENTAL RESTORATION PROGRAM
BASE REALIGNMENT AND CLOSURE PROGRAM

**Final Decision Document for the
LF2/SARN/38-Acre Parcel Fill Area
Study Areas of the Surplus Operable Unit
Fort Sheridan, Illinois**

Prepared for:
U.S. Army Environmental Center
Base Closure Division
Aberdeen Proving Ground, Maryland 21010-5401

Prepared by:
QST Environmental Inc.
St. Louis, Missouri

June 8, 1999

QST Project No. 490-2087-1100

In accordance with Army Regulation 200-2, this document is intended by the Army
to comply with the National Environmental Policy Act of 1969.

DECLARATION

Determination of No Response Action for the LF2/SARN/38-Acre Parcel Fill Area Study Areas of the Surplus Operable Unit Fort Sheridan, Illinois

Site Name and Location

This Decision Document (DD) has been prepared for the Landfill 2 (LF2)/Small Arms Range North (SARN)/38-Acre Parcel Fill Area study areas of the Surplus Operable Unit (OU), Fort Sheridan, Illinois. This DD addresses only the LF2/SARN/38-Acre Parcel Fill Area study areas of the Surplus OU. Remedy selection for the other Surplus OU study areas were addressed under separate DDs. The content of this DD is based on recommendations in the U.S. Environmental Protection Agency (USEPA) Interim Final Guidance on Preparing Superfund Decision Documents (USEPA, 1989) and the USEPA Guide to Developing Superfund No Action, Interim Action, and Contingency Remedy RODs (USEPA, 1991).

Statement and Basis of Purpose

This DD presents the determination that No Response Action is necessary for the LF2/SARN/38-Acre Parcel Fill Area, chosen in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). This DD explains the factual and legal basis for the determination that No Response Action is necessary for the LF2/SARN/38-Acre Parcel Fill Area study areas. The information supporting this No Response Action decision is contained in the Administrative Record for the Surplus OU. The Administrative Record Index is located in Appendix A.

Description of the No Response Action Determination

The Army has determined that No Response Action is necessary for the LF2/SARN/38-Acre Parcel Fill Area study areas. The baseline risk assessment (BRA) determined that no unacceptable potential human health or ecological risks are associated with the LF2/SARN/38-Acre Parcel Fill Area study areas. The BRA assumes the future use of these study areas will remain recreational. Therefore, No Response Action is necessary at the LF2/SARN/38-Acre Parcel Fill Area for the protection of human health and the environment.

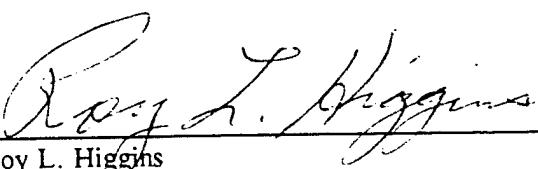
Declaration

No Response Action is necessary in order to ensure protection of human health and the environment at the LF2/SARN/38-Acre Parcel Fill Area study areas under the future land use scenario of open space. The physical site characteristics, along with the mandated transfer of the property to the Lake County Forest Preserve District (LCFPD) in the legislation adopted in Section 125 of the Fiscal Year 1996 Military Construction Appropriations Act (P.L. 104-32), will limit future use of these study areas to open space. Consistent with the deed restriction on Fort Sheridan property previously transferred to the LCFPD, a use restriction, mandating use of the property for recreational open space, will be included in the deed for property transfer. The use restriction will run with the land and is enforceable by the United States Government.

Even though the Army has determined that No Response Action is necessary, 5-year reviews will be performed. Independent of CERCLA (i.e., the conveyance of the property for open space pursuant to P.L. 104-32), the use of the property will be restricted primarily through deed restrictions. Because these independent controls are expected to remain over the long-term, and because the determination that No Response Action is necessary is based on restricted use (i.e., restricted to open space), 5-year reviews will be performed. The 5-year review will determine if No Response Action continues to be protective of human health and the environment.

Lead Agency Acceptance of No Response Action Decision Document
Fort Sheridan
LF2/SARN/38-Acre Parcel Fill Area Study Areas

Signature sheet for the No Response Action Decision Document for the LF2/SARN/38-Acre Parcel Fill Area study areas of the Surplus OU at Fort Sheridan by the U.S. Army. Concurrence letters from the State of Illinois Environmental Protection Agency and the U.S. Environmental Protection Agency are provided in Appendix B.


Roy L. Higgins
Colonel, U.S. Army
Commanding Officer, Fort McCoy

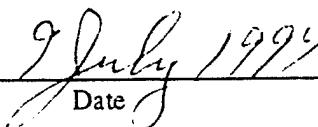

Date

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List of Acronyms and Abbreviations

ANL	Argonne National Laboratory
BCT	BRAC Cleanup Team
BRA	Baseline Risk Assessment
BRAC	Base Realignment and Closure
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COPCs	constituents of potential concern
CSA	coal storage area
DD	Decision Document
DNT	dinitrotoluene
DoD	Department of Defense
ecoCOPC	ecological constituent of potential concern
EQ	ecotoxicity quotient
ft-bgs	feet below ground surface
HI	hazard index
IEPA	Illinois Environmental Protection Agency
LF2	Landfill 2
LOAEL	lowest observed adverse effect level
MDL	method detection limit
mg/kg	milligram per kilogram
NOAEL	no observed adverse effect level
OU	Operable Unit
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
PAHs	polynuclear aromatic hydrocarbons
POL	petroleum, oils, and lubricants
RAE	reasonable average exposure
RAGS	Risk Assessment Guidance for Superfund
RBRG	risk-based remediation goal
RI/FS	Remedial Investigation/Feasibility Study
RME	reasonable maximum exposure
SARA	Superfund Amendments and Reauthorization Act
SARN	Small Arms Range North
SVOCs	semi-volatile organic compounds
USEPA	U.S. Environmental Protection Agency
UXO	unexploded ordnance

1.0 Site Name, Location, and Description

Fort Sheridan lies along the western shore of Lake Michigan and is bounded by the towns of Highwood to the west, Highland Park to the south, and Lake Forest to the north. Fort Sheridan covers an area of approximately 712 acres. The land occupied by Fort Sheridan is approximately 50 feet above Lake Michigan. The topography is relatively flat and gently sloping toward Lake Michigan. The lake side of the installation terminates in a bluff or embankment that extends the full length of the boundary and beyond.

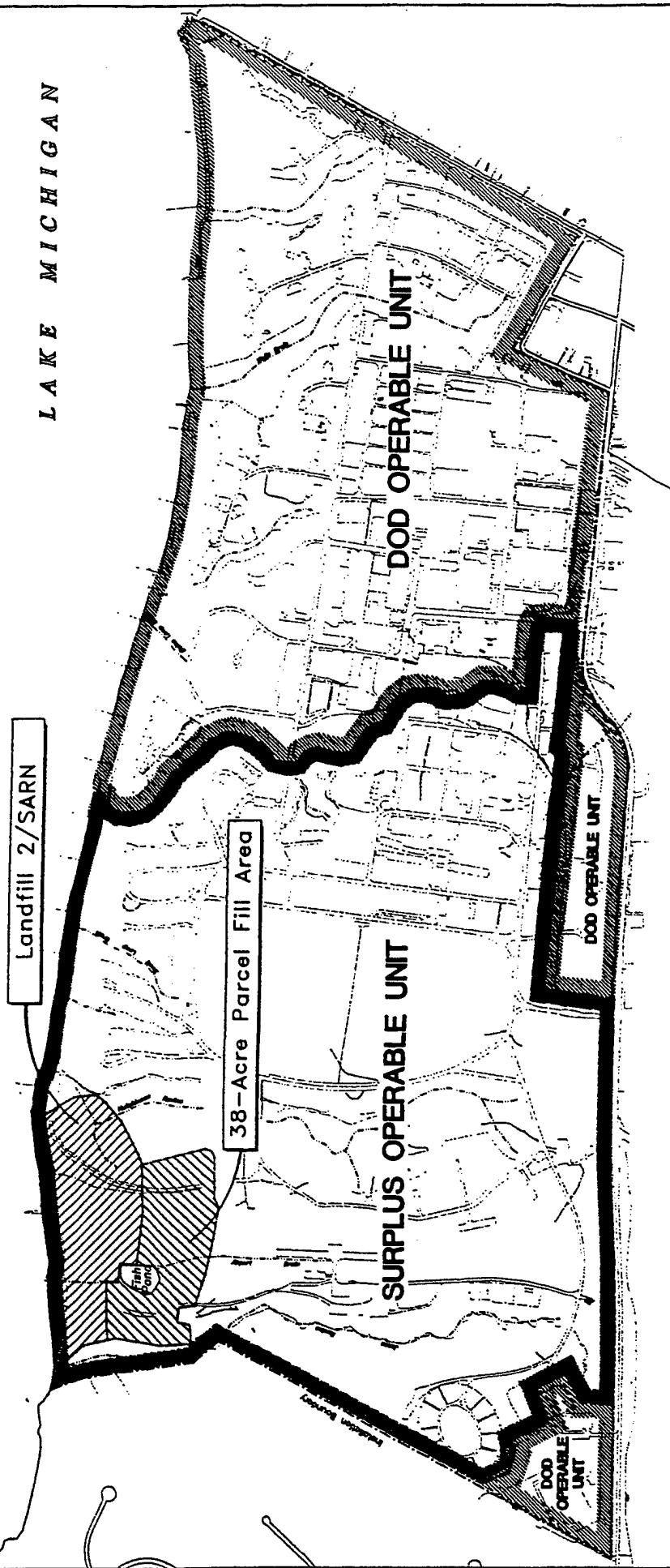
Landfill 2 (LF2) is located in and proximal to a former northern branch of Hutchinson Ravine in the northeastern portion of Fort Sheridan in the Surplus OU. LF2 was used prior to World War I [Argonne National Laboratory (ANL, 1989). At that time, small arms firing ranges were constructed over and adjacent to LF2. The southernmost former small arms range was located entirely within the LF2 study area and the northernmost former small arms range, referred to as small arms range north (SARN), was located just to the north of LF2. The ranges have not operated since the 1950s. There are no longer any surface expressions of the actual target berms. The exact dates and types of refuse disposed of at LF2/SARN were not well documented in historical records; however, excavation activities in the area have uncovered coal, cinders, and concrete construction debris. There were reports that the 51st Explosive Ordnance Detachment disposed of ammunition at LF2 by detonation in a pit dug for that purpose (ANL, 1989).

The 38-Acre Parcel Fill Area study area is located immediately west of the LF2/SARN study area within the western portion of fence line in what is commonly referred to as the 38-Acre Parcel. In 1997, excavation activities by the Lake County Forest Preserve District in support of the future Golf Course Club House construction uncovered metallic debris, wire, nails, cinders, and occasional items such as paint cans in the southeast portion of the 38-Acre Parcel. Because this fill area is located in the 38-Acre Unexploded Ordnance Parcel, the study area is referred to as the 38-Acre Parcel Fill Area. This fill/waste is distinctly different from the waste found at LF2 and appears to have been disposed of decades before the filling of the ravine that now constitutes LF2. The 38-Acre Parcel Fill Area did not appear on historical aerial photographs as a disturbed area and was not identified in any previous environmental assessments.

In 1988, the Commission on Base Realignment and Closure (BRAC) recommended Fort Sheridan, Illinois for closure to the Secretary of Defense. To support decisions regarding preparation of the property for release, the Department of the Army has implemented environmental studies and will conduct restoration activities (if needed) before property transfer. The Army is conducting these activities under the Defense Environmental Restoration Program and the BRAC program. A remedial investigation/feasibility study (RI/FS) has been conducted for portions of the Surplus OU at Fort Sheridan. The Surplus OU consists of property that has been declared excess by the Army and will be

or has been transferred to the local communities. LF2/SARN and the 38-Acre Parcel Fill Area study areas are located in the Surplus OU (Figure 1-1). This Decision Document (DD) addresses only the LF2/SARN and the 38-Acre Parcel Fill Area study areas. Separate DDs have been issued for the remaining portions of the Surplus OU (i.e., ravines and Beach Area study areas).

L A K E M I C H I G A N

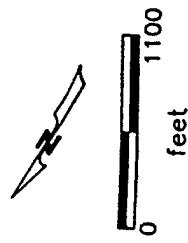


Adapted from an aerial survey by Air Survey Corporation, Sterling, Virginia. Date of photography: 12/6/95.

Figure 1-1

LF2/SARN/38-Acre Parcel Fill Area Locations
Final Decision Document for the
LF2/SARN/38-Acre Parcel Fill Area
Study Areas of the Surplus Operable Unit

Fort Sheridan, Illinois



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JCF 04/22/98
Revised JCF 07/17/98

2.0 Site History and Enforcement Actions

Fort Sheridan is located approximately 25 miles north of Chicago along the western shore of Lake Michigan. The installation location is shown in Figure 1-1. Fort Sheridan, named for General Phil Sheridan, was established in 1887 in the wake of the Great Chicago fire of 1871 and at the request of Chicago city leaders following the labor riots of 1886.

In the mid-1800s, prior to the Army's presence, the area of which Fort Sheridan is now composed, was the site of heavy industry including logging, a lumber mill, leather tanning, brick making, and iron casting. The land was transferred to the government for a token fee of \$10 by three members of the Commercial Club of Chicago. The donors were Adolphus Bartlett, Charles Hutchinson, and John Janes. Three ravines at Fort Sheridan are named for these individuals.

Troops trained at Fort Sheridan served in the Spanish-American War in 1898, the Mexican Intervention in 1913, and World Wars I and II. Fort Sheridan was a training center for anti-aircraft artillery units during World War II. From the 1950s until 1974, Fort Sheridan served as maintenance and supply center to NIKE air-defense missile systems for the Chicago, Gary, Detroit, Minneapolis-St. Paul, and Milwaukee air-defense network. Three NIKE missile silos were installed in the northern part of Fort Sheridan. These silos have been largely stripped of equipment and abandoned.

Preliminary assessments of Fort Sheridan, conducted in 1982 and 1989, identified several areas on the installation affected by previous landfilling activities; storage and handling of petroleum, oils, and lubricants (POL), as well as other motor pool wastes; former coal storage areas (CSAs); and storage and handling of various chemicals [Gross *et al.*, 1982; ANL, 1989]. The nature and duration of these activities at Fort Sheridan justified conducting an RI/FS to verify and quantify the nature and extent of associated chemical constituents in the environment, perform human health and environmental risk assessments, and evaluate remedial action alternatives leading to individual study area response actions, if necessary. Fort Sheridan was recommended for inclusion in the BRAC program in 1988.

A three-phase RI was conducted at the LF2/SARN/38-Acre Parcel Fill Area study areas from 1990 to 1996. Subsequent to the completion of the Phase III field work, the LF2/SARN/38-Acre Parcel Fill Area study areas were evaluated independently of other Surplus OU study areas to expedite the transfer and reuse of this property. The LF2/SARN/38-Acre Parcel Fill Area study areas are indicated in Figure 1-1.

The Phase I RI was conducted at Fort Sheridan from 1990 through 1992. Data collected and analyzed during this initial phase of the RI work at Fort Sheridan addressed 37 study areas. Unexploded ordnance (UXO) avoidance surveys were conducted at the LF2 study area to identify potential UXO in the area designated for surface and subsurface investigation. Geophysical surveys of LF2 were also

conducted to delineate the landfill boundaries. Fifteen soil borings (14 of which were converted into monitoring wells) were completed at LF2. Two monitoring wells were installed upgradient of LF2. Twelve monitoring wells were installed along the beach at six well nests of one deep well and one shallow well. Soil samples were collected from 9 of the 15 soil borings (soil samples were not collected from the shallow borings at each beach well nest location). Subsequent to the installation of the LF2 monitoring wells, one round of groundwater samples was collected during the Phase I field work.

Prior to Phase II field activities, background soil, sediment, surface water, and groundwater data were collected from several locations selected by the BRAC Cleanup Team (BCT) believed to be previously unaffected by Fort Sheridan mission-related activities (ESE, 1997). The background samples were collected to facilitate the development of a statistically defensible background database.

The installation ceased military operations as an Army facility in 1993. Portions of the installation were realigned to the U.S. Navy and U.S. Army Reserve. Approximately 100 acres are now owned by the U.S. Army Reserve and are used for equipment storage and disbursement, training, and administrative functions. Approximately 200 acres are now owned by the Navy and are used for family housing, administration, vehicle maintenance, communications, and training. Approximately 300 acres have been transferred to private ownership while the remainder of the 700-acre installation (approximately 100 acres) is still under Army jurisdiction and will be transferred to private ownership upon completion of the environmental restoration activities.

Fort Sheridan was divided into two principal OUs in 1995 to facilitate the implementation of the subsequent RI/FS and expedite the reuse of surplus Army property under the BRAC program. The first OU, designated the Surplus OU, consisted of property still owned by the U.S. Army and planned for disposal and reuse. This area occupies the north end of Fort Sheridan and is primarily composed of the golf course and historic district. The second OU is designated the Department of Defense (DoD) OU since this area remains the property of the Navy and Army Reserves. It includes most of the area to the south of Bartlett Ravine and the Army Reserve area in the northwest corner of Fort Sheridan. The boundaries of the two OUs are indicated in Figure 1-1.

The Phase II field effort was conducted from October 1995 through June 1996. During this field effort, UXO avoidance surveys were conducted at LF2 in areas designated for surface and subsurface investigation, and five soil borings and three test pits were completed. Two soil borings were subsequently converted into monitoring wells. Soil samples were collected from each of the soil boring and test pit locations at LF2. In addition, soil samples were collected from six soil boring locations at SARN. Two rounds (Round 1 and Round 2) of groundwater samples were collected from the existing monitoring wells at LF2 during the Phase II field work.

During the Phase III field effort conducted in the fall of 1996, animal tissue sampling was conducted to support the ecological Baseline Risk Assessment (BRA). Specifically, tissue sampling of earthworms was conducted at LF2/SARN and within the 38-Acre Parcel. Earthworms were also collected from a background area.

Excavation activities performed in 1997 by the Lake County Forest Preserve District uncovered a previously unidentified area of disposed material in the 38-Acre Parcel. Consequently, a Phase IV RI was performed at the 38-Acre Parcel Fill Area in February and March 1998. The investigative effort consisted of excavating 46 individual test pits. Surface and subsurface soil samples were collected from 18 of the test pits. In addition, two surface soil samples were collected at LF2/SARN to further evaluate the presence of lead.

3.0 Highlights of Community Participation

The RI/BRA and Proposed Plan for the LF2/SARN/38-Acre Parcel Fill Area study areas became final in January and March 1999, respectively. These documents are available to the public as part of the full Administrative Record File that is maintained at the Fort Sheridan BRAC Office, Building 379. The information repositories contain information similar to that contained in the Administrative Record, but are more focused on public information needs. The following facilities have been designated as information repositories:

Highwood Public Library	Lake Forest Library
102 Highwood Avenue	360 East Deerpath
Highwood, Illinois 60040	Lake Forest, Illinois 60045
Phone: 847/432-5404	Phone: 847/234-0636
Hours: Mon.-Thurs. 11:00 am - 7:00 pm	Hours: Mon.-Thurs. 9:00 am - 9:00 pm
Fri. & Sat. 10:00 am - 5:30 pm	Fri. & Sat. 9:00 am - 5:00 pm
Sunday Closed	Sunday Closed

Highland Park Public Library	Fort Sheridan BRAC Office*
494 Laurel Avenue	Building 379
Highland Park, Illinois 60035	Fort Sheridan, Illinois 60037-1289
Phone: 847/432-0216	Phone: 847/266-2907
Hours: Mon.-Thurs. 9:00 am - 9:00 pm	Hours: Mon.-Fri. 8:30 am - 5:00 pm
Fri. 9:00 am - 6:00 pm	
Sat. 9:00 am - 5:00 pm	
Sunday Closed	

* Location of Administrative Record

The notice of availability of these documents was published on February 25, 1999. A public comment period was held from March 3, 1999 to April 1, 1999. In addition, a public information session was held on March 3, 1999. At this meeting, representatives from the Army, U.S. Environmental Protection Agency (USEPA), and Illinois Environmental Protection Agency (IEPA) were available to address questions and receive comments about the No Response Action alternative under consideration. No requests for an extension were received. No comments were received during the public comment period.

4.0 Scope and Role of Response Action

This DD addresses the final remedy for the LF2/SARN/38-Acre Parcel Fill Area study areas of the Surplus OU. Based on the evaluation of potential risks considering a future open space use scenario, the Army, in coordination with USEPA and IEPA, has determined that the constituents present at the LF2/SARN/38-Acre Parcel Fill Area study areas do not pose sufficient risk to require a response action and has determined that no response action is necessary. Although low levels of constituents will remain in the surface and subsurface soil, they are present at levels that do not pose unacceptable human health or environmental risks.

Future use plans of the Lake County Forest Preserve District to expand the existing golf course make it highly unlikely that residential development would occur in the LF2/SARN/38-Acre Parcel Fill Area study areas. The legislation adopted in Section 125 of the Fiscal Year 1996 Military Construction Appropriations Act (P.L. 104-32) requires the Army to convey approximately 290 acres of open space, including the golf course, to the Lake County Forest Preserve District for use as open space. The LF2/SAR/38-Acre Parcel Fill Area study areas are located entirely within the 290 acres to be transferred to the Lake County Forest Preserve District and, therefore, will be used as open space in the future. Consistent with the deed restriction on Fort Sheridan property previously transferred to the LCFPD, a use restriction, mandating use of the property for recreational open space, will be included in the deed for property transfer. The use restriction will run with the land and is enforceable by the United States Government.

In keeping with the overall response strategy, the recommended remedial action for the LF2/SARN/38-Acre Parcel Fill Area study areas is No Response Action.

5.0 Summary of Site Characteristics

Given that more than 150 separate constituents were analyzed for at some of the study areas, and that, at most of the study areas, the majority of the constituents were reported as not detected, an exhaustive discussion of the presence or absence of each constituent is inefficient and, in many cases, provides an excess of irrelevant information that only serves to confuse the reader. Therefore, to facilitate the discussion, the following sections focus on arsenic, chromium, lead, benzo(a)pyrene, total carcinogenic PAHs, chlordane (gamma or total), p,p'-DDD, and p,p'-DDT. Total carcinogenic PAHs represent the sum of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene. These constituents, plus the metals previously mentioned, tend to be the primary risk drivers from a risk assessment perspective. Additionally, the distribution of these constituents is generally representative of the distribution of the other detected constituents.

5.1 LF2/SARN

LF2 is located in and proximal to a former northern branch of Hutchinson Ravine in the northeastern portion of Fort Sheridan in the Surplus OU (see Figure 1-1). LF2 was used prior to World War I (ANL, 1989). At that time, small arms firing ranges, including the SARN were constructed over and adjacent to LF2. The ranges have not operated since the 1950s. There are no longer any surface expressions of the actual target berms. The berms were probably leveled during the Haley Army Airfield runway construction in 1953. The exact dates and types of refuse disposed of at LF2/SARN are not well documented in historical records; however, excavation activities in the area have uncovered coal, cinders, and concrete construction debris. There were reports that the 51st Explosive Ordnance Detachment disposed of ammunition at LF2 as late as 1979 by detonation in a pit dug for that purpose (ANL, 1989). Unlike other filled ravines at Fort Sheridan, there is no storm sewer associated with LF2. Data from the soil borings and test pits completed at LF2/SARN have demonstrated that while the soil at the entire study area is disturbed to a depth of approximately 2 to 3 feet below ground surface (ft-bgs), the actual landfilling/disposal area is limited to the small northern branch of Hutchinson Ravine. The LF2/SARN study area covers an area of approximately 19 acres.

Surface soil analytical data indicate that arsenic and chromium were generally not detected at concentrations above their background comparison values at LF2/SARN. There is a noticeable cluster of lead detections significantly above the background comparison value in the surface soil samples proximal to the central and southern former SARN target berm locations. It is likely that these soil samples were collected from the area where the former target berms were leveled out. Benzo(a)pyrene and/or total carcinogenic polynuclear aromatic hydrocarbon (PAH) concentrations above background comparison values were detected in a few surface soil samples collected on the southern portion of LF2/SARN. The origin of these PAHs may be from the former burning of trash

or other materials. In addition, some pesticides/herbicides were detected at relatively low concentrations, albeit above background comparison values, in a few surface soil samples.

Subsurface soil analytical data indicate that arsenic and chromium were generally not detected at concentrations above background comparison values. Lead, benzo(a)pyrene, total carcinogenic PAHs, and pesticide/herbicide concentrations detected in subsurface soil samples were generally below their respective background comparison values. Lead, total carcinogenic PAHs, and pesticide/herbicide concentrations detected in "waste" soil samples (i.e., earthen fill, chunks of concrete, rebar, and some metal pipe) were generally above background comparison values.

Groundwater analytical data indicate that total arsenic, chromium, and lead concentrations exceeded background comparison values in most of the samples collected in Round 1 and/or Round 2 of the Phase II sampling effort. The data for dissolved arsenic, chromium, and lead from these two rounds of groundwater sampling were either below method detection limits (MDLs) (chromium) or below concentrations detected in the background wells. Benzo(a)pyrene and/or total carcinogenic PAHs were detected in several of the groundwater samples collected from the monitoring wells downgradient of (to the east of) LF2/SARN on the Lake Michigan shoreline. The potential source of these PAHs is the former burning and disposal of trash at LF2/SARN. Pesticides/herbicides were detected in relatively low concentrations in a few of the groundwater samples collected, albeit above background comparison values. In addition, 2,4-dinitrotoluene (2,4-DNT) and 4-amino-2,6-DNT were detected at low concentrations (i.e., within 10 times the MDL) in two Round 1 groundwater samples. It is thought these explosive-related constituents in groundwater may be related to the burning of off-specification munitions at LF2/SARN and/or SARN being an impact area. However, the fact that the detections were not confirmed in Round 2 samples and that these constituents were not detected in Phase I samples suggests that the data may have been anomalous or at least that LF2/SARN does not represent a significant ongoing source.

Earthworm tissue samples were collected and analyzed from several locations at the LF2/SARN study area. Arsenic, chromium, lead, and pesticides/herbicides were not detected in earthworm tissue samples at concentrations exceeding their highest detected respective concentrations in the background data set, with one exception. The exception was lead detected in one earthworm tissue sample at a concentration approximately twice the highest detected concentration in the background data set. Benzo(a)pyrene and total carcinogenic PAHs were not detected above MDLs in the earthworm tissue samples.

The data indicate that the extent of constituent concentrations above background at the LF2/SARN study area appears to be limited to the disturbed surface soil near the former target berm locations and the waste material in the filled ravine. There is a noticeable cluster of detections of lead significantly above the background comparison value in the surface soil samples proximal to the central and southern former SARN target berm locations.

5.2 38-Acre Parcel Fill Area

The 38-Acre Parcel Fill Area study area is located immediately west of the LF2/SARN study area and covers an area of approximately 16 acres. Excavation activities by the Lake County Forest Preserve District in support of the future Golf Course Club House construction uncovered metallic debris, wire, nails, cinders, and occasional items such as paint cans in the southeast portion of the 38-Acre Parcel. Other fill/waste material encountered during investigation activities consisted of various amounts of ash, coal, concrete, brick, tile, ceramic, bone, wood, metal debris, and glass bottles. It appears that this fill/waste is from the early 1900s (based on types of bottles and other dated waste found). The presence of organic rich clay (i.e., containing fibrous plant material and decayed vegetation) beneath the waste observed in the 38-Acre Parcel Fill Area suggests that this was a low lying marshy area filled with trash from either early base operations or pre-Fort Sheridan activities. On the whole, the waste appears to be typical of what one would expect a military dining hall or private eating establishment of that era to generate (i.e., broken pottery and ceramic plates, bottles of various types, animal bones, etc). This fill/waste is distinctly different from the waste found at LF2 and appears to have been disposed of decades before the filling of the ravine that now constitutes LF2.

Surface soil analytical data indicate that arsenic, chromium, and lead were generally not detected at concentrations above their respective background comparison values. Benzo(a)pyrene and/or total carcinogenic PAHs concentrations above background comparison values were detected in some surface soil samples. In addition, some pesticides/herbicides were detected at relatively low concentrations, albeit above background comparison values, in some surface soil samples.

Subsurface soil analytical data indicate that arsenic and chromium were detected at concentrations slightly above background comparison values in some subsurface soil samples. Lead concentrations moderately exceeded the background comparison values in some subsurface soil samples. Benzo(a)pyrene, total carcinogenic PAHs, and pesticide/herbicide concentrations detected in these subsurface soil samples were generally much lower than in the surface soil and fill/waste samples (most concentrations were below background comparison values).

Subsurface fill/waste analytical data indicate arsenic was detected at concentrations slightly exceeding the background comparison value in two samples. Chromium was not detected in any subsurface fill/waste sample at a concentration exceeding the background comparison value. Lead, benzo(a)pyrene, total carcinogenic PAHs, and some pesticide/herbicide concentrations detected in subsurface fill/waste soil samples were generally above background comparison values.

Earthworm tissue samples were collected and analyzed from several locations within the 38-Acre Parcel Fill Area. Arsenic and chromium were the only metals detected in tissue samples at concentration greater than those in the background data set. However, these detections occurred only

in one or two samples. Lead and pesticides/herbicides were not detected in earthworm tissue samples at concentrations exceeding their highest detected respective concentrations in the background data set, with one exception. The exception was alpha-chlordane, detected in one earthworm tissue sample at a concentration less than twice the highest detected concentration in the background data set. Benzo(a)pyrene and total carcinogenic PAHs were not detected above MDLs in the earthworm tissue samples.

The extent of constituent concentrations above background at the 38-Acre Parcel Fill Area appears to be limited to the disturbed surface soil and the fill/waste material in the southeastern corner of the study area.

6.0 Summary of Site Risks

In order to characterize the potential current and future threats to human health and the environment that may be posed by the constituents of concern at the LF2/SARN/38-Acre Parcel Fill Area study areas of the Surplus OU, a BRA was conducted as part of the RI in accordance with USEPA's Risk Assessment Guidance for Superfund (RAGS): Volumes I - Human Health Evaluation Manual (Part A) and Volume II - Environmental Evaluation Manual (USEPA, 1989).

The BRA evaluated the LF2/SARN/38-Acre Parcel Fill Area study areas to determine if constituents found in the surface and subsurface soil during the RI were present in concentrations that represented a potential for current or future health risks to humans or adverse effects on the environment. Because the Army will transfer the LF2/SARN/38-Acre Parcel Fill Area study areas to the Lake County Forest Preserve District, the BRA took into consideration the current and future reuse of the LF2/SARN/38-Acre Parcel Fill Area study areas as open space. The potential health effects may differ depending on how the land of the LF2/SARN/38-Acre Parcel Fill Area study areas will be used currently and in the future. Current access to the LF2/SARN/38-Acre Parcel Fill Area study areas is restricted. Future use of the LF2/SARN/38-Acre Parcel Fill Area study areas is expected to include recreational development as part of an expanded golf course facility. Therefore, the BRA included exposure to future golf course workers and recreational users (golfers), as well as utility or construction workers.

Drinking groundwater was not considered as a likely exposure pathway. The groundwater at Fort Sheridan is not currently used as a drinking water source, and there is an abundant water supply readily available from Lake Michigan. Even if a shallow groundwater well was installed, because of the geology of this site, the well would not yield enough water to support a drinking water or irrigation water supply.

6.1 Human Health Risk Summary

Constituents of potential concern (COPCs) were identified in order to streamline the risk assessment process by identifying constituents that contribute most significantly to overall potential risk. COPCs were evaluated for surface and subsurface soil. PAHs and lead were identified as COPCs based on methods presented in RAGS and discussed in detail in the RI/BRA for the LF2/SARN/38-Acre Parcel Fill Area (QST, 1999). The COPCs identified for the LF2/SARN/38-Acre Parcel Fill Area study areas are presented in Table 6-1.

The BRA interpreted the RI data in order to (1) identify those exposure pathways that may pose a current or future potential risk to human health and the environment and (2) determine the degree of this potential risk. The BRA evaluated each human exposure pathway for completeness and determined that there were three significant exposure scenarios. The significant human exposure

scenarios for the LF2/SARN/38-Acre Parcel Fill Area study areas addressed in the BRA were future recreational use, future maintenance worker, and future construction worker.

Under future land use conditions (golf course), the risks due to the constituents found at the LF2/SARN/38-Acre Parcel Fill Area study areas via all exposure pathways are below or well within the target carcinogenic risk range and below the non-carcinogenic hazard index (HI) target value of 1 (Table 6-2). Under these future land use conditions, the highest potential carcinogenic risk due to the constituents found at the LF2/SARN/38-Acre Parcel Fill Area study areas via all exposure pathways is 4E-05 (i.e., four additional chances in 100,000 that an individual may develop cancer over a lifetime of exposure) (see Table 6-2). This is well within the target risk range. These potential risks are primarily associated with PAHs in the soil. The PAH concentrations detected at the LF2/SARN/38-Acre Parcel Fill Area study areas exceeded the maximum background concentrations by as much as three orders of magnitude.

Because of its uniqueness with regard to toxicity, carcinogenic and noncarcinogenic risks cannot be determined for lead in the same way as for the other COPCs for the LF2/SARN/38-Acre Parcel Fill Area study areas. Recent research indicates that lead exhibits a range of adverse effects at low exposure levels; does not appear to have a threshold level below which no adverse health effects occur; and may be carcinogenic at high exposure levels. The evaluation of lead exposure and risk associated with the LF2/SARN/38 Acre Parcel Fill Area study areas consists of a comparison of the lead concentrations in samples collected from the area with calculated site-specific risk-based remediation goals (RBRGs) for lead. Site-specific RBRGs were developed for each adult exposure scenario evaluated in the BRA (i.e., recreational, maintenance worker, and construction worker). This comparison is presented in Table 6-3

The range of soil concentrations at the LF2/SARN/38-Acre Parcel Fill Area study areas for children and for the adult recreational and maintenance worker are well below the levels of concern presented in the table. Although the construction worker soil concentration is above the site-specific RBRG, the lead concentrations present at the LF2/SARN/38-Acre Parcel Fill Area study areas do not pose an unacceptable risk to construction workers.

A USEPA model was used to calculate the RBRG for the construction worker. In order to function properly, the model requires that the construction worker be working at the site and exposed to the soils containing elevated lead levels for a minimum amount of time (for example, for 3 months, 5 days a week). In actuality, this is longer than a construction worker would normally be working at the site and exposed to the site soils containing elevated lead levels (for example, a construction worker can normally be expected to work about 5 days a week for only 1½ months). As a result of this longer period of time required by the model, the calculated RBRG value is lower than would be expected if a more realistic period of time could be used. Consequently, the calculated RBRG associated with the construction worker's exposure to lead is overly conservative.

Because it is unlikely that a construction worker would only be exposed to the surficial soils (0- to 1-foot) in the area encompassed by the elevated lead levels at the LF2/SARN/38-Acre Parcel Fill Area study areas, the exposure point concentration of 520 milligrams per kilogram (mg/kg) for the 0- to 10-foot interval is likely more representative of potential exposures than the 707 mg/kg value. Because potential risks associated with the construction worker's exposure to lead is overestimated both by the calculated RBRG and the surficial exposure point concentration, the calculated 0- to 1-foot value of 707 mg/kg overestimates actual risks posed to future construction workers at the LF2/SARN/38-Acre Parcel Fill Area study areas. Therefore, the lead concentrations present at the LF2/SARN/38-Acre Parcel Fill Area study areas do not pose an unacceptable risk to construction workers.

6.2 Ecological Risk Summary

An ecological risk assessment was conducted at the LF2/SARN/38-Acre Parcel Fill Area study areas. The LF2/SARN/38-Acre Parcel Fill Area study areas is generally open space with no paved or filled areas. The ecological risk assessment considered potential risks to terrestrial species, including cats (as a surrogate for house pets), shrews, woodchucks, robins, and hawks. The ecological risk assessment compared the concentrations of the constituents at the LF2/SARN/38-Acre Parcel Fill Area study areas with environmental health based levels.

The ecological risk assessment equivalent of the human health HI is the ecotoxicity quotient (EQ). As with the HI, an EQ greater than one ($EQ > 1$) indicates a level of risk that is potentially unacceptable. None of the ecological COPC (ecoCOPC) concentrations in the soil samples from the LF2/SARN/38-Acre Parcel Fill Area study areas resulted in an $EQ > 1$ for the earthworm, white-footed mouse, or woodchuck for the COPCs evaluated (Table 6-4). EQs exceeded one for the potential ingestion of soil antimony and lead by the shrew and robin, respectively. Because the EQs only slightly exceed the no observed adverse effect level (NOAEL) for these constituents, there is a very low potential for adverse effects due to soil ingestion. When the lowest observed adverse effect level (LOAEL) is used as the benchmark, all EQs are less than one. EQs for the exposure of plants to boron and molybdenum also exceeded one. However, considering the vegetation and wide variety of plants present at the LF2/SARN/38-Acre Parcel Fill Area study areas, it does not appear that concentrations of molybdenum, boron, and other soil ecoCOPCs are causing significant adverse effects to plants.

The evaluation of the potential for COPCs to concentrate in animal food chains resulted in no EQs greater than one for the woodchuck, white-footed mouse, Cooper's hawk, and feral cat. EQs exceeded one for the ingestion of earthworms by robins for lead and zinc. Considering the migratory tendencies for many of the bird species at Fort Sheridan, the exposure duration at the LF2/SARN/38-Acre Parcel Fill Area study areas would be considerably less than the 100 percent residency used in the evaluation. In addition, the ecotoxicity benchmarks used in these evaluations are the conservative

NOAELs. When LOAELs are used as benchmarks, the earthworm ingestion EQs decrease to less than one. EQs also exceeded one for the ingestion of earthworms by shrews for antimony and vanadium. The ecotoxicity benchmark used for antimony is the conservative NOAEL. When the LOAEL is used as a benchmark, the earthworm ingestion EQ decreases to less than one. Because vanadium concentrations detected in samples collected at the LF2/SARN/38-Acre Parcel Fill Area study areas are similar to concentrations detected in background samples, no adverse effects are anticipated to shrews from ingesting vanadium in earthworms.

Table 6-1. COPCs for LF2/SARN/38-Acre Parcel Fill Area Soil

Human Health COPCs	EcoCOPCs
Benzo(a)anthracene	4(2,4-dichlorophenoxy) butyric acid (2,4-DB)
Benzo(a)pyrene	Acenaphthene
Benzo(b)fluoranthene	Acenaphthylene
Beryllium	Anthracene
Indeno(1,2,3-c,d)pyrene	Antimony
Lead	Benzo(a)anthracene
Benzo(k)fluoroanthene	Benzo(a)pyrene
Chrysene	Benzo(b)fluoranthene
Dibenzo(a,h)anthracene	Benzo(ghi)perylene
	Benzo(k)fluoranthene
	Beryllium
	Bis(2-ethylhexyl)phthalate
	Boron
	Chlordane, total
	Chrysene
	Copper
	DDD, p,p'
	DDE, p,p'
	DDT, p,p'
	Dibenzo(ah)anthracene
	Dicamba
	Fluoranthene
	Fluorene
	Indeno(1,2,3-cd)pyrene
	Lead
	2-(4-chloro-2-methylphenoxy) propanoic acid (MCPP)
	Mercury
	Methylnaphthalene, 1-
	Methylnaphthalene, 2-
	Molybdenum
	Naphthalene
	Phenanthrene
	Pyrene
	Silver
	Tin

Source: QST, 1999.

Table 6-2. Summary of Potential Human Health Risks*

Exposure Scenario	Total Noncarcinogenic Hazard Index		Total Carcinogenic Risk†	
	RAE	RME	RAE	RME
Recreational Adult				
Surface Soil	4E-05	2E-04	4E-05	6E-06
Subsurface Soil	3E-05	1E-04	7E-07	3E-06
Recreational Child				
Surface Soil	2E-04	1E-03	†	†
Subsurface Soil	2E-04	8E-04	†	†
General Worker				
Surface Soil	8E-05	4E-04	6E-07	3E-06
Subsurface Soil	6E-05	3E-04	3E-07	2E-06
Construction Worker				
Surface Soil	6E-04	3E-03	9E-08	4E-07
Subsurface Soil	5E-04	2E-03	5E-08	2E-07

* The range of risks provided are reflective of estimated exposures to the reasonable average exposure (RAE) and reasonable maximum exposure (RME), respectively.

† Lifetime cancer risk estimate. For the Recreational Scenario, childhood cancer risks are included in values presented for the adult.

Source: QST, 1999.

Table 6-3. Comparison of Lead Concentrations in Soil with Site-Specific RBRGs

Exposure Pathway		Lead Concentrations* (mg/kg)	RBRG (mg/kg)
Recreational	Adult	83.9-161	1,501
	Child	83.9-161	400
Maintenance Worker	Adult	83.9-161	1,261
Construction Worker	Adult	520-707	595

* Values shown are for the 0- to 10-foot and 0- to 1-foot intervals, respectively.

mg/kg = milligrams per kilogram

RBRG = Risk Based Remediation Goal

Source: QST, 1999.

Table 6-4. Summary of Potential Risks to Ecological Receptors

Exposure Medium	Receptor Type	Number of Times EQ > 1	EcoCOPCs with EQ > 1	Significance
Soil	Earthworm	0/24		No adverse effects expected.
	Shrew	1/34	Antimony	Slight EQ exceedence is based on NOAEL. However when a LOAEL is used, no adverse effects are expected (i.e., EQ<1).
	White-footed mouse	0/34		No adverse effects expected.
	Woodchuck	0/34		No adverse effects expected.
	Robin	1/34	Lead	Slight EQ exceedence is based on NOAEL. However, when a LOAEL is used, no adverse effects are expected (i.e., EQ<1). Consideration of animal's home range would significantly reduce the EQ further.
	Plants	2/14	Boron Molybdenum	Slight EQ exceedence is based on NOAEL. However, when a LOAEL is used, no adverse effects are expected (i.e., EQ<1).
			Lead Zinc	Slight EQ exceedence is based on NOAEL. However when a LOAEL is used, no adverse effects are expected (i.e., EQ<1). Consideration of animal's home range would significantly reduce the EQ further.
Food Web	Robin	2/40		
	Shrew	2/40	Antimony Vanadium	Slight EQ exceedence is based on NOAEL. However, when a LOAEL is used, no adverse effects are expected (i.e., EQ<1).
	Woodchuck	0/40		No adverse effects expected.
	White-footed mouse	0/40		No adverse effects expected.
	Cooper's hawk	0/16		No adverse effects expected.
	Feral cat	0/16		No adverse effects expected.

EQ = ecotoxicity quotient.

NOAEL = no observed adverse effect level

LOAEL = lowest observed adverse effect level

Source: QST, 1999.

7.0 Description of the No Response Action Determination

The results of the BRA indicate that, for the future use scenario of open space, the LF2/SARN/38-Acre Parcel Fill Area study areas of the Surplus OU do not pose an unacceptable risk to human health and the environment. Because the Lake County Forest Preserve District is planning on using the LF2/SARN/38-Acre Parcel Fill Area study areas as open space (i.e., an expanded golf course), residential development and use of this area is unlikely. Therefore, No Response Action is necessary for the LF2/SARN/38-Acre Parcel Fill Area study areas of the Surplus OU.

Consistent with the deed restriction on Fort Sheridan property previously transferred to the LCFPD, a use restriction, mandating use of the property for recreational open space, will be included in the deed for property transfer. The use restriction will run with the land and is enforceable by the United States Government.

8.0 Documentation of Significant Changes

The Proposed Remedial Action Plan for the LF2/SARN/38-Acre Parcel Fill Area study areas of the Surplus OU was released for public comment on March 3, 1999. The Proposed Remedial Action Plan identified No Response Action as the Preferred Alternative. The Army did not receive any written or verbal comments during the public comment period. Therefore, it is determined that no significant changes to the decision that No Response Action is necessary, as originally identified in the Proposed Remedial Action Plan, are necessary.

9.0 References

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Appendix A

Administrative Record Index

Fort Sheridan
Draft Administrative Record
6/30/99

DOC NO	AR*	DOCUMENT TITLE	AUTHOR	DATE	RECIPIENT
1.001.1	1	Sanitary Landfill Closure, Fort Sheridan, Illinois	Greeley and Hansen	9/1/78	IL EPA
1.002	1	Final Design Analysis Sanitary Landfill Closure	Greeley and Hansen	2/1/80	US Army Corps of Engineers, Omaha
1.003	1	Feasibility Study to Determine the Use of On-site Soils for Landfill Cover Materials	Soil Testing Services, Inc.		Benson, Doug - Facilities Engineering, Fort Sheridan, IL
1.004	1	Letter-re: Lab Results of Landfill Samples near Wells Ravine Landfills 6 & 7	Young, R.A. - Young Environmental Services	6/2/80	Ketchik, J., Facilities Engineering
1.005	1,3,4,5	Installation Assessment of Fort Sheridan and Joliet Training Area, Illinois	Chemical Systems Laboratory	4/11/81	USATHAMA
1.006	1,3, 5	Historical Overview of the Nike Missile System	Environmental Science and Engineering	5/1/82	USATHAMA
1.007	1,3,4,5	Update of the Initial Installation Assessment of Fort Sheridan, Illinois	Environmental Science and Engineering	8/1/87	USATHAMA
1.009	1,3,4,5	Enhanced Preliminary Assessment Report: Fort Sheridan, Illinois	Argonne National Laboratories	10/1/89	USATHAMA
1.009.1	1,3,4,5	Installation Assessment Army Base Closure Program, Fort Sheridan, Lake County, Illinois	The Bionetics Corp.	4/1/90	US EPA
1.009.2	1	MOU Between Department of Army and Navy	Secretary of Army and Sec. of Navy	8/8/91	
1.009.3	1,3,4,5	Report of Findings for PCB Transformer Sampling Conducted at Fort Sheridan, Illinois	IT Corporation	6/11/92	USATHAMA
1.011.2	2,3,5	Fort Sheridan Unexploded Ordnance Survey (50 Acre Parcel) Final Work Plan	IT Corporation	10/14/93	US AEC
1.011.5	3,4,5	Community Environmental Response Facilitation Act (CERFA) Report	The Earth Technology Corporation	4/1/94	US AEC
1.012.1	2,3,5	Fort Sheridan Unexploded Ordnance Survey, Final Technical Report	IT Corporation	7/1/94	US AEC
1.012.2	1	Letter-re: IEPA Requesting Dept. of Army to Sample Metal Water Tower (south end)	Nussbaum, S.D. - IL EPA	11/7/94	Reilly, C. - Fort Sheridan BEC
1.013	1	Letter-re: Concept Design Report for Closure Design of Landfills 6 & 7	Schaefer, G.M. - US EPA	12/8/94	Reilly, C. - Fort Sheridan BEC
1.014	1,3,4,5	Industrial Radiation Historical Data Review, Survey No. 27-83-2859A-95, Fort Sheridan, Illinois, 15 January-30 March 1995 Memorandum-re: "Probable UXO" Area, April 1994 CERFA Report	USACHPPM	1/15/95	FORSCOM
1.015.5	1	Exploratory Trenching Report Landfills 6 and 7 Fort Sheridan, Illinois	Reilly, C. - Fort Sheridan BEC	4/20/95	US AEC
1.016	1	Report of Sanitary Landfill Closure Site Inspection	Environmental Science and Engineering	5/1/95	US Army Corps of Engineers, Louisville
1.017	1	Risk Characterization of Landfill 7 Air Emissions (Volatiles)	Greeley and Hansen	6/19/80	Fort Sheridan
1.018	1	Letter-re: Proposed Sampling Plan for Surface Soils at Fort Sheridan Landfill 7	US EPA	6/19/95	Reilly, C. - Fort Sheridan BEC
1.019	1		Ross, Jenny - USN, EFA Midwest	7/6/95	Reilly, C. - Fort Sheridan BEC

*AR LEGEND:

- 1 = Department of Defense Operable Unit (OU)
- 2 = Unexploded Ordnance Time Critical Removal Action (Final AR)
- 3 = Surplus OU
- 4=Landfills 3-4 OU (Final AR)
- 5=Ravines and Beach Study Areas (Final AR)

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DOC NO	AR*	DOCUMENT TITLE	AUTHOR	DATE	RECIPIENT
1.020	1	Letter-re: Landfill 7 Black Pipe (LF&BP) Sample Results	Lake, Paul T. - IEPA	9/26/95	Reilly, C. - Fort Sheridan BEC
1.021	1,3	Sampling and Analysis Plan, Coal Storage Area 2 Annex	QST Environmental	4/13/99	Bob Fileccia, U.S. Army Corps of Engineers, Louisville, KY
1.022	1,3	Site Investigation Report for the Coal Storage Area Annex Study Area of the Surplus Operable Unit, Fort Sheridan	QST Environmental	6/10/99	Bob Fileccia, U.S. Army Corps of Engineers, Louisville, KY
2.001	2	Letter-re: Time Critical Ordnance and Explosive Waste (OEW) Removal Action at Fort Sheridan, IL	Balliett, A.L. - Chief, Environmental Management Division, Fort McCoy	8/2/94	Schafer, G.M. - US EPA
2.002	2	Letter-re: Time Critical Ordnance and Explosive Waste Removal Action at Fort Sheridan, IL	Balliett, A.L. - Chief, Environmental Management Division, Fort McCoy	8/2/94	Nussbaum, S.D. - IL EPA
2.003	2	Explosive Safety Submission for Ordnance Removal and Land Disposal of 38 Acre Parcel at Fort Sheridan, IL	US Army Corps of Engineers, St. Louis District	8/15/94	US Army Corps of Engineers, Huntsville Division
2.004	2	Letter-re: Proposed Time Critical Removal Action for Ordnance & Explosive Waste at Fort Sheridan, IL	Nussbaum, S.D. - IL EPA	8/17/94	Balliett, A.L. - Chief, Environmental Management Division, Fort McCoy
2.005	2	Letter-re: Proposed Time-Critical Removal Action for Ordnance & Explosive Waste at Fort Sheridan, IL	Nussbaum, S.D. - IL EPA	8/17/94	Balliett, A.L. - Chief, Environmental Management Division, Fort McCoy
2.006	2	Letter-re: Draining of Pond to facilitate Time Critical Removal Action for OEW Survey	Nussbaum, S.D. - IL EPA	9/07/94	Balliett, A.L. - Chief, Environmental Management Division, Fort McCoy
2.007	2	Letter-re: Proposed Time-Critical Removal Action for Ordnance & Explosive Waste	Nussbaum, S.D. - IL EPA	9/26/94	Balliett, A.L. - Chief, Environmental Management Division, Fort McCoy
2.008	2	Proposed Time-Critical Removal Action for Ordnance & Explosive Waste	Nussbaum, S.D. - IL EPA	9/30/94	Balliett, A.L. - Chief, Environmental Management Division, Fort McCoy
2.009	2	Letter-re: Proposed Time-Critical Removal Action for Ordnance and Explosive Waste	Schafer, Gary M. - US EPA	10/4/94	Balliett, A.L. - Chief, Environmental Management Division, Fort McCoy
2.010	2	Letter-re: Postponement of Time Critical Ordnance & Explosive Waste	Balliett, A.L. - Chief, Environmental Management Division, Fort McCoy	12/8/94	Schafer, G.M. - US EPA
2.011	2	Letter-re: Postponement of Time Critical Ordnance and Explosive Waste (OEW) Removal from Fort Sheridan	Balliett, A.L. - Chief, Environmental Management Division, Fort McCoy	12/8/94	Nussbaum, S.D. - IL EPA
2.013	2	Letter-re: Army's Position on Unexploded Ordnance (UXO)	Reilly, C. - Fort Sheridan BEC	7/5/95	Lake, Paul T. - IL EPA
2.014	2	Letter-re: Army Position on Unexploded Ordnance (UXO)	Lake, Paul T. - IL EPA	9/14/95	Reilly, C. - Fort Sheridan BEC
2.015	2, 5	Action Memorandum-re: Time Critical Ordnance and Explosives Removal, Former Firing Range, Fort Sheridan, IL	Harold K. Miller, Jr., Colonel, U.S. Army, Commanding Officer	3/12/96	
2.016	2,5	Ordnance and Explosive (OE) Site Operations - Addendum 001 to Fort Sheridan Work Plan	HFA (Human Factors Applications, Inc.)	3/18/96	US Army Corps of Engineers, Huntsville Division
2.016.5	3	On-Scene Coordinator Report, Time Critical Removal Action at Buildings 43 and 368, Fort Sheridan, Illinois	Diversified Technologies Corporation	10/8/96	Reilly, C. - Fort Sheridan BEC
		Final Removal Report, Volume I & II, Ordnance & Explosives (OE) Interim Removal and Sampling Action , Fort Sheridan, Illinois (See separate report on shelf Volumes I & II)	Human Factors Applications, Inc. (HFA)	3/27/97	US Army Corps of Engineers, Huntsville Division

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DOC NO	AR*	DOCUMENT TITLE	AUTHOR	DATE	RECIPIENT
2.017.5	1	Fort Sheridan Landfills 6 & 7 Leachate Treatment Facility Design Analysis Report, Interim Remedial Action (includes drawings)	Environmental Science & Engineering	June, 1997	U.S. Army Corps of Engineers, Louisville District
2.107.6	1	Landfills 6 & 7 Phase 1 Interim Remedial Action Leachate Treatment Facility Specifications	Environmental Science & Engineering	June, 1997	U.S. Army Corps of Engineers, Louisville District
2.018	3	Engineering Evaluation/Cost Analysis, Coal Storage Area 3, B42, B43, B77 (see separate report on shelf)	LAW Engineering and Environmental Services, Inc.	Nov. 1997	US Army Corps of Engineers, Louisville District
2.018.1	1	Landfills 6 & 7 Phase 1 Interim Remedial Action Corrected Final Specifications	Environmental Science & Engineering	Feb, 1998	U.S. Army Corps of Engineers, Louisville District
2.018.2	1	Landfills 6 & 7 Phase 1 Interim Remedial Action Design Analysis Report, Corrected Final (includes drawings)	Environmental Science & Engineering	Feb, 1998	U.S. Army Corps of Engineers, Louisville District
2.019	3	Removal Action Work Plan, Fort Sheridan, IL, Coal Storage Area 3, B42, B43, B77 (see separate report on shelf)	IT Corporation	April,1998	U.S. Army Corps of Engineers, Louisville District
2.019.1	3	Sand Sampling at CSA3, Fort Sheridan, Illinois	QST Environmental	5/28/99	Bob Fileccia, U.S. Army Corps of Engineers, Louisville, KY
2.02	1,3	Final Non-Time-Critical Removal Action Completion Report, Buildings 42, 43, and 77 and Coal Storage Area 3, Fort Sheridan, Illinois	IT Corporation	6/11/99	U.S. Army Corps of Engineers, Louisville District
2.021	1,3	Chain of Custody forms, Non-Time-Critical Removal Action, Buildings 42, 43, and 77, and Coal Storage Area 3	IT Corporation / QST Environmental Laboratories	March - Dec 98	File
3.002.2	1,3,4,5	Letter-re: Review of Technical Plan, Sampling and Analysis Plan, Quality Assurance Project Plan, and Health and Safety Plan for Fort Sheridan	Franz, W.D. - US EPA	2/7/90	Jackson, J. - USATHAMA
3.003	1,3,4,5	Letter-re: Comments on the Draft Technical Plan and the Draft Sampling Plan	Franz, W.D. - US EPA	4/4/90	Fendick, R., USATHAMA
3.005	1,3,4,5	Letter-re: Comments regarding the Analytical Methods in Technical Plan	Franz, W.D. - US EPA	4/13/90	Fendick, R., USATHAMA
3.007	1,3,4,5	Letter-re: Response to Comments	Franz, W.D. - US EPA	5/7/90	Fendick, R., USATHAMA
3.010	1,3,4,5	Final Health and Safety Plan, Fort Sheridan, IL	E.C. Jordan Co.	7/1/90	USATHAMA
3.011	1,3,4,5	Final Quality Assurance Program Plan, Fort Sheridan, IL	E.C. Jordan Co	7/1/90	USATHAMA
3.013	1,3,4,5	Final Sampling and Analysis Plan, Fort Sheridan, IL	E.C. Jordan Co.	7/1/90	USATHAMA
3.014	1,3,5	Final Technical Plan, Fort Sheridan, IL	E.C. Jordan Co.	7/1/90	USATHAMA
3.015	1,3,4,5	Letter-re: Final Technical Plans	Torrisi, Salvatore P., Chief, USATHAMA	9/14/90	Denning, T. - IL EPA
3.015.1	1,3,4,5	Amendment to Final Technical and Sampling and Analysis Plan for Storage Area Investigations at Fort Sheridan, IL	Environmental Science and Engineering, Inc.	9/18/90	USATHAMA

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DOC NO	AR*	DOCUMENT TITLE	AUTHOR	DATE	RECIPIENT
3.015.5	1,3,4,5	Letter-re: Request from IL EPA for copies of the following: Sampling and Analysis Plan, Health and Safety Plan, Quality Assurance Program Plan, and Technical Plan for Fort Sheridan Amendment to Final Technical and Sampling and Analysis Plans for Landfill Investigations, Fort Sheridan, IL	Torrisi, Salvatore P., Chief, USATHAMA Environmental Science and Engineering, Inc.	10/25/90 11/2/90	Carter, Julia, IL EPA USATHAMA
3.016	1,3,4,5	Letter-re: Review of Amendments to Final Technical and Sampling Analysis Plans for Fort Sheridan, IL	Carter, Julia E. - IL EPA	8/1/91	Fendick, R., USATHAMA
3.020	1,3,4,5	Addendum to Fort Sheridan Site Safety Plan-Part IIb, Field Employees, Unknown Chemical Exposure Prevention (UCEP) Letter-re: Responses to Comments on RI/FS Work Plans	Environmental Science and Engineering, Inc.	9/12/91	Fendick, R., USATHAMA
3.021.5	1,3,4,5	Addendum to Final Quality Assurance Program Plan, Fort Sheridan Remedial Investigation/Feasibility Study, Fort Sheridan, IL	Torrisi, S.P. - USATHAMA	10/18/91	Carter, J. - IL EPA
3.022	1,3,4,5	Addendum to Final Sampling and Analysis Plan Storage Area Investigations for Fort Sheridan Remedial Investigation/Feasibility Study, Fort Sheridan, IL	Environmental Science and Engineering, Inc.	10/23/91	USATHAMA
3.025	1,3,4,5	Letter-re: Sampling and Analysis Plan (SAP), QAPP, Work Plan, Health and Safety Plan and Community Relations Plan	Carter, J.E. - IL EPA	10/23/91	USATHAMA
3.026	1,3,4,5	Letter-re: Fort Sheridan Base Closure	Davis, S.K. - IL EPA	11/14/91	Fendick, R. - USATHAMA
3.027.5	1,3,4,5	Letter-re: Responses to the IEPA Comments to the Fort Sheridan Remedial Investigation/Feasibility Study (RI/FS) Work Plans	US AEC	4/2/92	Torrisi, S. - USATHAMA
3.027.6	1,3,4,5	Draft Final Remedial Investigation (RI)/Risk Assessment (RA) Report Remedial Investigation/Feasibility Study Fort Sheridan IL (3 Volumes)	Environmental Science and Engineering, Inc.	4/6/92	Carter, J., IL EPA
3.028	1,3,4,5	Letter-re: Comments on Draft Remedial Investigation/Risk Assessment	Torrisi, S.P. - USATHAMA	6/1/92	USATHAMA
3.030	1,3,4,5	Letter-re: Review and Comments of the Draft Final Remedial Investigation (RI) Report, including Risk Assessment (RA)	Carter, J.E. - IL EPA	6/17/92	Choi, S.S., US EPA
3.031	1,3,4,5	Letter-re: Concerns and recommendations Based on the Draft Final Remedial Investigation(RI) Report and Risk Assessment/Feasibility Study (RA/FS)	Choi, S. - US EPA	7/27/92	Fendick, R., USATHAMA
3.033	1,3,4,5	Letter-re: Comments on Draft Remedial Investigation/Risk Assessment	Wooten, COL. R.G. - USA EC	10/6/92	Fendick, R., USATHAMA
3.035	1,3,4,5	Responses to Regulatory Agency Comments Regarding Remedial Investigation/Risk Assessment Report	Wooten, COL. R.G. - USA EC	10/7/92	Choi, S.S., US EPA
3.040	1,3,4,5	Letter-re: IL EPA Comments to Overall Quality Assurance Project Plan	Nussbaum, S.D. - IL EPA	2/9/93	Nussbaum, S.D. - IL EPA
3.041.1	1,3,4,5		Nussbaum, S.D. - IL EPA	8/15/93	Fendick, R. - US AEC

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3.046	1,3,4,5	Letter-re: Review of Draft Final Overall Technical Plan, Sampling and Analysis Plan, Quality Assurance Project Plan, Remedial Investigation/Feasibility Study for Fort Sheridan, IL, August 1993	Ripley, L.J. - US EPA	11/4/93	Stokke, S., HQ Fort McCoy
3.049	1	Lake County Health Department Closed Landfill Inspection Report	Pergams, R.; D. DeBennette - Lake County Health Department	5/11/94	IL EPA
3.050	9,1	SSHASP-Soil, Groundwater, and Landfill Investigations at LF 6&7	Environmental Science and Engineering	7/1/94	USACE, Louisville District
3.053	1,3,4,5	Shallow Groundwater Resource Classification, Fort Sheridan, IL	Environmental Science and Engineering	10/25/94	USAEC
3.053.1.1	1	SSHASP-Landfill Leachate Sampling at Landfill 7	Environmental Science and Engineering	11/11/94	USACE-Louisville District
3.054	1,3,4,5	IL EPA comments Regarding Groundwater Classification Report	Nussbaum, S.D. - IL EPA	12/22/94	Reilly, C. - Fort Sheridan BEC
3.055	1,3,4,5	Letter-re: Questions Regarding IL EPA's Groundwater Classification Review Comments	Reilly, C. - Fort Sheridan BEC	1/26/95	Nussbaum, S.D. - IL EPA
3.056	1,3,4,5	Letter-re: Questions Regarding IL EPA Groundwater Classification Document Review Comments	Reilly, C. - Fort Sheridan BEC	2/27/95	Nussbaum, S.D. - IL EPA
3.057.1.1	1	Memorandum for Record: Landfill 6 & 7 Closure, Fort Sheridan Final Overall Quality Assurance Project Plan (QAPP) Remedial Investigation/Feasibility Study Fort Sheridan, Illinois (See separate report on shelf - 2 Volumes)	Reilly, C. - Fort Sheridan BEC	3/6/95	
3.057.2.2	1,3,4,5	Storm Sewer Outfall Testing at Landfill #7, Fort Sheridan, IL	Environmental Science and Engineering	3/15/95	US Army Environmental Center
3.058	1	Well Abandonment Report Monitoring Wells LF7MW6S and LF7MW6D, Fort Sheridan, IL	Ecology Services, Inc.	4/5/95	US Army Corps of Engineers
3.064	1		Environmental Science and Engineering	5/10/95	US Army Corps of Engineers, Louisville District
3.068	3,5	Letter-re: Golf Course Sampling and Analysis Plan	Environmental Science and Engineering	6/5/95	Lechner, Dr. Charles-USAEC
3.068.3	1,3,4,5	Final Sampling and Analysis Plan for Background Sampling	Environmental Science and Engineering	5/26/95	Lechner, Dr. Charles-USAEC
3.069	1	Fort Sheridan Landfill 6 and 7 Project Information Report Submitted to North Shore Sanitary District	Environmental Science and Engineering	6/7/95	North Shore Sanitary District
3.071	1,3,4,5	Letter-re: Responses to Comments Regarding the SOP for Determination of ONOPs Using GC/NPD	McKinley, D.K. - Environmental Science and Engineering	6/14/95	Thompson, W.O. - US EPA
3.072	1,3,4,5	Groundwater Classification Document, Fort Sheridan, IL (See separate report on shelf - Volumes 1 & 2)	Environmental Science and Engineering	Feb. 1996	US AEC
3.073.1	1,3,4,5	Industrial Radiation Survey No. 27-MH-2859-R1-96 Facility Close-Out and Termination Survey, Fort Sheridan, Illinois. 17 August 95 - 30 May 96.	USACHPPM	Aug. 1996	Reilly, C. - Fort Sheridan BEC

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3.073.2	3,4,5	Final Sampling and Analysis Plan for the Surplus Operable Unit Fort Sheridan (See separate report on shelf)	Environmental Science and Engineering		Lechner, Dr. Chuck-USAEC
3.074	3,5	Sewer Cleaning and Testing Report - Eleven Building Locations at Fort Sheridan, Illinois	Ecology Services, Inc.	2/15/96	Reilly, C. - Fort Sheridan BEC
3.075	1,3,4,5	Radiological Assessment & Survey at Fort Sheridan	IL Dept. of Nuclear Safety	3/11/96	Lake, Paul T. - IL EPA
3.076	1,3,4,5	Final Data Validation Report - 10 Volume set	ECG, Inc.	4/12/96	
3.076.1	1,3,4,5	Memorandum-re: Final Data Usability Summary and Resampling Proposal for Fort Sheridan	Wojciechowski, LTC Paul E.	4/12/96	Reilly, C. - Fort Sheridan BEC
3.076.5	3,4,5	Letter-re: USEPA review and comments on: Data Validation Support, ECG, Inc. Surplus Operable Unit, Fort Sheridan, Illinois	Thompson, W. Owen - US EPA	9/23/96	Reilly, C. - Fort Sheridan BEC
3.077	3,4,5	Final Phase III Sampling and Analysis Plan for the Surplus Operable Unit-Fort Sheridan (See separate report on shelf)	Environmental Science and Engineering	10/4/96	Lechner, Dr. Chuck-USAEC
3.077.1	3,4, 5	Letter-re: Draft Phase I Data Usability Evaluation, Fort Sheridan, Illinois	Thompson, W. Owen - US EPA	10/28/96	Reilly, C. - Fort Sheridan BEC
3.077.2	3,4, 5	Letter-re: Draft Phase I Data Usability Evaluation, Fort Sheridan, Illinois	Environmental Science and Engineering	11/13/96	Thompson, W. Owen - US EPA
3.077.4	3,4	Final Revised Technical Evaluation Plan Fort Sheridan RI/FS Industrial Radiation Survey No. 27-MH-2859-R2-97, Nike Missile Facilities Close-Out and Termination Survey, Fort Sheridan, IL, 1 September 1995 - 24 May 1996	Environmental Science and Engineering	11/12/96	US AEC
3.077.5	1,3	USACHPPM		12/29/96	Reilly, C. - Fort Sheridan BEC
3.078	1	Phase II-RI/FS DOD OU - Technical Plan - Volume 1 & 2 Video: Showing Remedial Investigation Field Work-Landfills 3 & 4 Activities	Science Applications International Corp.	1/97	Lechner, Dr. Chuck-USAEC
3.079	4	Letter-re: Industrial Radiation Close-Out and Termination Survey Report, Nike Missile Facilities	Environmental Science and Engineering	3/97	Reilly, C. - Fort Sheridan BEC
3.079.1	1,3,4	Final Background Sampling and Data Evaluation Report, Fort Sheridan	Thompson, W. Owen, USEPA	4/30/97	Reilly, C. - Fort Sheridan BEC
3.080	1,2,3,4,5	Chemical Analytical Data (With NFG Qualifiers)Background Sampling Locations, Fort Sheridan	Environmental Science and Engineering	5/21/97	US AEC
3.080.1	1,3,5	QST Environmental Inc.		1/30/98	US AEC
3.081	1,3,4,5	ECG, Inc.		4/30/97	US AEC
3.082	1,3,4,5	ECG, Inc.		5/19/97	US AEC
3.083	3,4,5	ECG, Inc.		6/6/97	US AEC
3.084	1	Science Applications International Corp.		6/97	US AEC
3.084.5	3	Soil Sampling - PCB Analysis at Building 913-transformer pad, and at pole	Day, Paul, DTC	7/19/97	Reilly, C. - Fort Sheridan BEC

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3.085	4	Letter-re: evaluation of available information for Landfills 3 & 4 OU	Reilly, C. - Fort Sheridan BEC	7/11/97	Lake, Paul - Illinois EPA & Thompson, Owen- USEPA
3.086	1,3,4	Final Remedial Investigation/Baseline Risk Assessment for Landfills 3 & 4 Operable Unit, 4-Volumes	QST Environmental Inc.	7/18/97	US AEC
3.086.1	4	Chemical Analytical Data (With NFG Qualifiers) Landfills 3 and 4 Operable Unit, Fort Sheridan	QST Environmental Inc.	1/30/98	US AEC
3.086.2	1,3	Chemical Analytical Data (With NFG Qualifiers) Asphaltic Baseline Sampling Locations, Fort Sheridan	QST Environmental Inc.	1/30/98	US AEC
3.087	3,4,5	Baseline Sampling Report #4 - 3 Volume set	ECG, Inc.	7/21/97	US AEC
3.088	1,3	Letter-re: Industrial Radiation Close-Out and Termination Survey Report for the Nike Missile Facilities at Fort Sheridan	Lake, Paul T., Illinois EPA	7/31/97	Reilly, C. - Fort Sheridan BEC
3.090	3,4,5	Letter-re: Final Data Validation Report #4, Fort Sheridan Continuing Data Validation Support	Thompson, W. Owen, USEPA	9/8/97	Reilly, C. - Fort Sheridan BEC
3.090.1	3,5	Letter-re: Verification Sampling and Analysis -Surplus OU-Fort Sheridan, Illinois	Manikas, Christopher S., SAIC	9/8/97	Fileccia, Robert - USACE, Louisville District
3.091	3,4,5	Letter-re: Fort Sheridan Continuing Data Validation Support, Final Data Validation Report #2, and Final Data Validation Report #3	Thompson, W. Owen, USEPA	9/22/97	Reilly, C. - Fort Sheridan BEC
3.092	3,4,5	Letter-re: Fort Sheridan RI Data Validation Responses to Comments, August 7, 1997	Thompson, W. Owen, USEPA	10/21/97	Reilly, C. - Fort Sheridan BEC
3.093	3,5	Final Sampling Results and Data Evaluation Report for Miscellaneous Surplus Operable Unit Study Areas, Fort Sheridan, Illinois (3-Volumes)	QST Environmental Inc.	11/7/97	USAEC, Base Closure Division
3.093.1	3	Chemical Analytical Data (With NFG Qualifiers)Miscellaneous Study Areas	QST Environmental Inc.	1/30/98	US AEC
3.093.2	3,5	Chemical Analytical Data (With NFG Qualifiers) Surplus OU Verification Sampling Results, Surplus Operable Unit, Fort Sheridan, Illinois	QST Environmental Inc.	1/30/98	US AEC
3.094	3,5	Letter-re: Final VOC Data Usability, Surplus and DoD Operable Units, Ft. Sheridan	Science Applications International Corp.	Nov. 1997	USACE - Louisville District
3.094.1	1,3,5	Reilly, C. - Fort Sheridan BEC	12/3/97	Lake, Paul - Illinois EPA & Thompson, Owen- USEPA	
		Letter-re: Reply to Responses to Comments on the "Draft Final Data Evaluation Report and Technical Memorandum for Miscellaneous Surplus OU Study Areas, Fort Sheridan, Illinois, Fort Sheridan BRAC Cleanup Team, November 7, 1997.			
3.095	3	Thompson, W. Owen, USEPA	12/3/97	Reilly, C. - Fort Sheridan BEC	
3.096	3	Letter-re: Response to Owen Thompson, USEPA letter dated December 3, 1997	Reilly, C. - Fort Sheridan BEC	12/9/97	Thompson, W. Owen, USEPA
3.097	3	MEMO FOR RECORD: Removal and Replacement of Leaking PCB Transformer PM427	Day, Paul, DTC	12/19/97	Reilly, C. - Fort Sheridan BEC

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3.098	3	Final 38-Acre Parcel Fill Area, Sampling and Analysis Plan, Fort Sheridan, Illinois	QST Environmental Inc.	2/16/98	USAEC
3.099	3.5	Final Remedial Investigation/Baseline Risk Assessment for the Ravines and Beach Study Areas of the Surplus Operable Unit, Fort Sheridan, Illinois (3 volumes, see separate report on shelf)	QST Environmental, Inc.	4/13/98	U.S. Army Environmental Center
3.100	3	Final Sampling and Analysis Plan for the Supplemental Investigation at Building 172, Surplus Operable Unit, Fort Sheridan, Illinois	QST Environmental, Inc.	5/1/98	U.S. Army Environmental Center
3.101	1,3	Explosives Analytical Results, water samples, Highland Park Water Treatment Plant	Andrew G. Weitz, QST Environmental, Inc.	7/28/98	
3.110	3	Final Report of Limited Soil Investigation, Building 172 (see separate report on shelf)	LAW Engineering and Environmental ECG, Inc.	8/98	U.S. Army Corps of Engineers
3.110.1	1,3	Final Data Validation Report #5	12/18/98	USAEC	
3.111	3	Final Remedial Investigation/Baseline Risk Assessment for the LF2/SARV/38-Acre Parcel Fill Area of the Surplus Operable Unit, Fort Sheridan, Illinois (3 volumes)	QST Environmental	1/13/99	USAEC
3.112	1,3	Explosives Analytical Results, water samples, Highland Park Water Treatment Plant and Highwood water plant	Gordon Lane, Quanterra, Inc.	1/18/99	Scott George, QST Environmental
3.113	3	Final Post Removal Action Risk Evaluation for Building 42, Building 43, Coal Storage Area 3, and Building 77 of the Surplus Operable Unit, Fort Sheridan, Illinois	QST Environmental, Inc.	6/14/99	U.S. Army Environmental Center
4.003.1	1	Predesign Investigation Report Landfill 6 & 7	Environmental Science and Engineering	7/1/94	USACE - Louisville District
4.005	1	Concept Design Evaluation Closure Design Landfills 6 & 7, Fort Sheridan, IL	Environmental Science and Engineering	9/6/94	USACE - Louisville District
4.007.1	1	Concept Design Report, Closure Design, Landfills 6 & 7	Environmental Science and Engineering	10/3/94	USACE - Louisville District
4.009	1	Letter-re Landfill 6 & 7 Storm Sewer Re-Route, Fort Sheridan	Reilly, C. - Fort Sheridan BEC	3/29/95	
4.010.1	1	Letter-re Pre-Treatment Requirements for on-site treatment prior to discharge to POTW	Nussbaum, S.D. - IL EPA	3/8/95	Reilly, C., - Fort Sheridan BEC
4.012	1	Stormwater Calculation for Landfills 6 & 7, Fort Sheridan, IL	Environmental Science and Engineering	4/5/95	Fileccia, B. - US Army Corps of Engineers
4.013	1	Letter-re: Fort Sheridan Landfills 6 & 7; Stormwater Modifications	Ingram, W. - Environmental Science and Engineering	4/13/95	Schultz, M. - Navy Public Works Center
4.014.1	1	Gas Vent Liquids Sampling Landfill 7	Environmental Science and Engineering	5/1/95	USACE - Louisville District

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4.014.1.2	1	Letter-re: Excavation of Landfill 6 & 7	Kuhn, Michael F., Lake County Health Dept.	7/13/95	Hopkins, Bill - Ft. Sheridan
4.015.1	1	Landfill 7 Cover Investigation Report	Environmental Science and Engineering	1/1/96	USACE - Louisville District
4.016	1	Letter-re: Comments New Storm Drain Alignments LF 6 & 7	Schulz, Mark - US Navy EFA	1/4/96	Reilly, C., - Fort Sheridan BEC
4.017	1	Letter-re: Comments on Landfills 6 & 7 Interim Draft Focused Feasibility Study (FS)	Kuhn, Michael F., Lake County Health Dept.	1/19/96	Reilly, C., - Fort Sheridan BEC
4.018	1	Memorandum-re: Responses to Comments on LF 6 & 7 Draft FS	Lee, MAJ. Arthur P. - USACHPPM	6/7/96	USACE - Louisville District
4.019	1	Landfills 6 & 7 Interim Action Focused Feasibility Study (See separate report on shelf)	Environmental Science and Engineering	7/2/96	USACE - Louisville District
4.020	1	Responses to Comments on LF 6 & 7 Draft Final Focused FS	Environmental Science and Engineering	7/10/96	USACE - Louisville District
		Action Memorandum, Time-Critical Removal Action, Buildings 43 and 368, Fort Sheridan	Harold K. Miller, Colonel, U.S. Army, Commanding Officer	1995	File
5.001	1,3	Proposed Plan Landfills 6 & 7 Interim Action	US Army, Fort Sheridan, IL - BRAC Office	8/1/96	File
5.002	1	Decision Document (DD) for Interim Source Control Action for Landfills 6 and 7 at Fort Sheridan, Illinois (See separate report on shelf)	Environmental Science and Engineering	4/22/97	USACE - Louisville District
5.003	1	Final Fort Sheridan Historic District Transfer Parcel Environmental Baseline Survey (EBS), Fort Sheridan Base Realignment and Closure Surplus Property	Diversified Technologies Corp.	May, 1997	Fort Sheridan BRAC Environmental Office
5.003.1	1,3	Chemical Analytical Data (With NFG Qualifiers) Fort Sheridan Historic District I Transfer Parcel EBS May, 1997, Fort Sheridan Final Proposed Remedial Action Plan Landfills 3 & 4 Operable Unit	QST Environmental Inc.	1/30/98	US AEC
5.004	4	Final Decision Document for Landfills 3 & 4 Operable Unit	QST Environmental Inc.	7/22/97	US AEC
5.005	4	Final Technical Memorandum for Miscellaneous Surplus OU Study Areas, Fort Sheridan, Illinois	QST Environmental Inc.	10/22/97	US AEC
5.006	3	Letter-re: Response to IEPA Comment on Fort Sheridan Historic District and Golf Course Transfer Parcels (November 18, 1997)	BRAC Cleanup Team	11/7/97	File
5.007	3	Action Memorandum Non-Time Critical Removal Action Coal Storage Area 3, Building 42, Building 43, and Building 77 Surplus Operable Unit, Fort Sheridan, Illinois	Fort Sheridan BRAC Office	11/25/97	IL EPA
5.008	3		Higgins, Col. Roy L., U.S. Army	3/3/98	

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5.009	3,5	Final Proposed Remedial Action Plan for the Ravines and Beach Area Study Areas of the Surplus Operable Unit, Fort Sheridan, Illinois (see shelf for separate report)	QST Environmental Inc.	6/10/98	USAEC
5.010	3,5	Final Decision Document for the Ravines and Beach Area Study Areas of the Surplus Operable Unit, Fort Sheridan, Illinois	QST Environmental Inc.	9/9/98	USAEC
5.011	3	Final Follow-on Investigation Report for the Building 172 Study Area of the Surplus Operable Unit, Fort Sheridan, Illinois	QST Environmental, Inc.	10/14/98	USAEC
5.012	3	Final Proposed Remedial Action Plan for the LF2/SARN/38-Acre Parcel Fill Area of the Surplus Operable Unit, Fort Sheridan, Illinois (see shelf for separate report)	QST Environmental Inc.	3/1/99	USAEC
5.012.1	3	Final Decision Document for the LF2/SARN/38-Acre Parcel Fill Area Study Areas of the Surplus Operable Unit, Fort Sheridan, Illinois	QST Environmental, Inc.	6/8/99	USAEC
5.013	3	No Further Response Action Decision Paper, Building 42, Building 43, Building 77, and Coal Storage Area 3, Fort Sheridan	Fort Sheridan BRAC Cleanup Team	June, 99	File
5.014	1,3	Supplemental Action Memorandum, Change in the Scope of Response Action, Non-Time-Critical Removal Action, Coal Storage Area 3, Building 42, Building 43, and Building 77, Surplus OU, Fort Sheridan	Colonel Roy L. Higgins, Commander, Fort McCoy	June, 99	File
6.004	1,3,4,5	Letter-re: Closure and Environmental Investigations of Fort Sheridan	Torrisi, S.P. - USATHAMA	2/1/90	Denning, T. - IL EPA
6.005.1	1,3,4,5	Letter-re: US Army - Fort Sheridan, IL - Superfund/Technical Letter-re: Fort Sheridan, IL - Developing a Final Remedial Investigation/Feasibility Study (RI/FS)	Child, W.C. - IL EPA	4/16/92	Walker, L.D. - Department of the Army
6.006.1	1,3,4,5	Letter-re: Discussions Regarding Issues At Fort Sheridan Memorandum-re: Base Closure, Fort Sheridan, Observations of the Site Visit on 27 Apr 1993	Walker, L.D. - Department of the Army	5/29/92	Child, W.C. - IL EPA
6.007	1,3,4,5	Letter-re: Resolution of Problems at Fort Sheridan	Davis, S.K. - IL EPA	5/12/93	Glass, COL. J.D. - US Army Corps of Engineers
6.008	1,3,4,5	Memorandum-re: Base Closure, Fort Sheridan, Observations of the Site Visit on 27 Apr 1993	Ripley, L.J. - US EPA	5/12/93	Fendick, R. - US AEC
6.009	1,3,4,5	Letter-re: Resolution of Problems at Fort Sheridan	Wooten, COL. R.G. - USAEC	5/20/93	Gade, M. - IL EPA
6.013	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - Feb. 8-9, 1994	Bailliet, A.L. - Chief, Environmental Management Division, Fort McCoy	2/16/94	Fort Sheridan BCT
6.014	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - Feb. 17-18, 1994	Bailliet, A.L. - Chief, Environmental Management Division, Fort McCoy	2/25/94	Fort Sheridan BCT
6.015	1,3,4,5	Letter-re: Minutes of Telephone Conversation on 18 Apr 1994, Re: OGAPP	Schafer, G.M. - US EPA	4/19/94	Nussbaum, S.D. - IL EPA

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DOC NO	AR*	DOCUMENT TITLE	AUTHOR	DATE	RECIPIENT
6.018	1,3,4,5 Sheridan	Letter-re: BRAC Environmental Restoration Project at Fort	Wojciechowski, LTC P.E. - USAEC	7/11/94	Ayers, T. - IL EPA
6.020	1,3,4,5 August 18, 1994	Endpoint for Agenda Items, Army-IEPA Fort Sheridan Meeting,	Fendick, R. - USAEC	8/23/94	Nussbaum, S.D. - IL EPA
6.026	1,3,4,5	Letter-re: Comments to Minutes of Nov. 3, 1994, Conference Call Regarding Fort Sheridan OQAPP Comments	Nussbaum, S.D. - IL EPA	11/14/94	Lechner, C.A. - USAEC
6.028.1	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - Dec. 5-6, 1994	Reilly, C. - Fort Sheridan BEC	12/5/94	BRAC Cleanup Team
6.029	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - Jan. 18, 1995	Reilly, C. - Fort Sheridan BEC	1/30/95	BRAC Cleanup Team
6.030	1,3,4,5	Memorandum-re: Operable Unit Strategy, Fort Sheridan, IL	Fort Sheridan BCT	2/1/95	Fort Sheridan BCT
6.031	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - Feb. 3, 1995	Lechner, C.A. - US AEC	2/3/95	Fort Sheridan BCT
6.032.1	1,3,4,5 Springfield, IL	BRAC Cleanup Team (BCT) Meeting Minutes - Mar. 1-2, 1995, Memorandum-re: Landfill 6 & 7 Storm Sewer Re-Route, Fort Sheridan	Reilly, C. - Fort Sheridan BEC	3/1/95	Fort Sheridan BCT
6.035	1	BRAC Cleanup Team (BCT) Meeting Minutes - Mar. 29, 1995	Reilly, C. - Fort Sheridan BEC	3/29/95	Fort Sheridan BCT
6.035.1	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - Apr. 18, 1995	Reilly, C. - Fort Sheridan BEC	3/29/95	Fort Sheridan BCT
6.035.5	1,3,4,5	Letter-re: Possible Unexploded Ordnance (UXO) on U.S. Navy property at Fort Sheridan	Reilly, C. - Fort Sheridan BEC	4/18/95	Fort Sheridan BCT
6.035.6	1	BRAC Cleanup Team (BCT) Meeting Minutes - May 16, 1995	Reilly, C. - Fort Sheridan BEC	4/20/95	Schultz, Mark-Navy Public Works
6.036	1,3,4,5	Summary of Meeting, Illinois EPA	Environmental Science and Engineering	4/29/95	
6.037.5	1,3,4,5 1995	BRAC Cleanup Team (BCT) Meeting Minutes - June 20-21, 1995	Reilly, C. - Fort Sheridan BEC	5/16/95	Fort Sheridan BCT
6.038	1,3,4,5 1995	BRAC Cleanup Team (BCT) Meeting Minutes - July 18-19, 1995	Reilly, C. - Fort Sheridan BEC	6/20/95	Fort Sheridan BCT
6.039	1,3,4,5 1995	BRAC Cleanup Team (BCT) Meeting Minutes - Aug. 15-16, 1995	Reilly, C. - Fort Sheridan BEC	6/18/95	Fort Sheridan BCT
6.040	1,3,4,5 1995	BRAC Cleanup Team (BCT) Meeting Minutes - Aug. 15-16, 1995 (Revised)	Reilly, C. - Fort Sheridan BEC	8/15/95	Fort Sheridan BCT
6.041	1,3,4,5 1995	BRAC Cleanup Team (BCT) Meeting Minutes - Oct. 24-25, 1995	Reilly, C. - Fort Sheridan BEC	10/10/95	Fort Sheridan BCT
6.043	1,3,4,5 1995	BRAC Cleanup Team (BCT) Meeting Minutes - Jan. 9, 1996	Reilly, C. - Fort Sheridan BEC	10/25/95	Fort Sheridan BCT
6.044	1,3,4,5 1995	BRAC Cleanup Team (BCT) Meeting Minutes - Feb. 20-21, 1996	Reilly, C. - Fort Sheridan BEC	1/9/96	Fort Sheridan BCT
6.045	1,3,4,5 1996	BRAC Cleanup Team (BCT) Meeting Minutes - Feb. 20-21, 1996	Reilly, C. - Fort Sheridan BEC	2/20/96	Fort Sheridan BCT

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DOC NO	AR*	DOCUMENT TITLE	AUTHOR	DATE	RECIPIENT
6.046	1	Final Meeting Minutes Landfills 6 & 7 Focused FS	BRAC Office - Fort Sheridan	3/6/96	
6.047	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - Mar. 19-20, 1996	Reilly, C. - Fort Sheridan BEC	3/19/96	Fort Sheridan BCT
6.048	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - Apr. 23-24, 1996	Reilly, C. - Fort Sheridan BEC	4/23/96	Fort Sheridan BCT
6.049	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - May 28-29, 1996	Reilly, C. - Fort Sheridan BEC	5/28/96	Fort Sheridan BCT
6.050	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - June 18, 1996	Reilly, C. - Fort Sheridan BEC	6/18/96	Fort Sheridan BCT
6.050.1	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - July 24, 1996	Reilly, C. - Fort Sheridan BEC	6/24/96	Fort Sheridan BCT
6.050.2	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - August 22, 1996	Reilly, C. - Fort Sheridan BEC	8/22/96	Fort Sheridan BCT
6.051	1,3,4,5	Memorandum-re: BRAC Cleanup Team (BCT) Meeting and Conference Call Regarding Background Sampling and Data Evaluation	Reilly, C. - Fort Sheridan BEC	8/28/96	Fort Sheridan BCT
6.052	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - September 25-26, 1996	Reilly, C. - Fort Sheridan BEC	9/25/96	Fort Sheridan BCT
6.053	1,3,4,5	BRAC Cleanup Team (BCT) Updated Meeting Minutes - October 23-24, 1996	Reilly, C. - Fort Sheridan BEC	10/23/96	Fort Sheridan BCT
6.054	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - November 20-21, 1996	Reilly, C. - Fort Sheridan BEC	11/20/96	Fort Sheridan BCT
6.055	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - December 18-19, 1996	Reilly, C. - Fort Sheridan BEC	12/18/96	Fort Sheridan BCT
6.056	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - January 22-23, 1997	Reilly, C. - Fort Sheridan BEC	1/22/97	Fort Sheridan BCT
6.057	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - February 26-27, 1997	Reilly, C. - Fort Sheridan BEC	2/26/97	Fort Sheridan BCT
6.058	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - March 26-27, 1997	Reilly, C. - Fort Sheridan BEC	3/26/97	Fort Sheridan BCT
6.059	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - April 23-24, 1997	Reilly, C. - Fort Sheridan BEC	4/23/97	Fort Sheridan BCT
6.060	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - May 28-29, 1997	Reilly, C. - Fort Sheridan BEC	5/28/97	Fort Sheridan BCT
6.061	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - June 18-19, 1997	Reilly, C. - Fort Sheridan BEC	6/19/97	Fort Sheridan BCT
6.062	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - July 23, 1997	Reilly, C. - Fort Sheridan BEC	7/23/97	Fort Sheridan BCT
6.063	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - August 27, 1997	Reilly, C. - Fort Sheridan BEC	8/27/97	Fort Sheridan BCT

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6.064	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - September 24, 1997	Reilly, C. - Fort Sheridan BEC	9/24/97	Fort Sheridan BCT
6.065	1,3,4,5	BRAC Cleanup Team (BCT) Meeting Minutes - October 22, 1997	Reilly, C. - Fort Sheridan BEC	10/22/97	Fort Sheridan BCT
6.066	1,3,5	BRAC Cleanup Team (BCT) Meeting Minutes - Dec 5, 1997	Reilly, C. - Fort Sheridan BEC	12/5/97	Fort Sheridan BCT
6.067	1,3,5	BRAC Cleanup Team (BCT) Meeting Minutes - Feb 4, 1998	Reilly, C. - Fort Sheridan BEC	2/4/98	Fort Sheridan BCT
6.068	1,3,5	BRAC Cleanup Team (BCT) Meeting Minutes - March 24, 1998	Reilly, C. - Fort Sheridan BEC	3/24/98	Fort Sheridan BCT
6.069	1,3,5	BRAC Cleanup Team (BCT) Meeting Minutes - April 29, 1998	Reilly, C. - Fort Sheridan BEC	4/29/98	Fort Sheridan BCT
6.070	1,3,5	BRAC Cleanup Team (BCT) Meeting Minutes - May 28, 1998	Reilly, C. - Fort Sheridan BEC	5/28/98	Fort Sheridan BCT
6.071	1,3,5	BRAC Cleanup Team (BCT) Meeting Minutes - June 25, 1998	Reilly, C. - Fort Sheridan BEC	6/25/98	Fort Sheridan BCT
6.072	1,3,5	BRAC Cleanup Team (BCT) Meeting Minutes - August 19, 1998	Reilly, C. - Fort Sheridan BEC	8/19/98	Fort Sheridan BCT
6.073	1,3,5	BRAC Cleanup Team (BCT) Meeting Minutes - Sept. 28, 1998	Reilly, C. - Fort Sheridan BEC	9/28/98	Fort Sheridan BCT
6.074	1,3,5	BRAC Cleanup Team (BCT) Meeting Minutes - Nov 5, 1998	Reilly, C. - Fort Sheridan BEC	11/5/98	Fort Sheridan BCT
6.075	1,3	BRAC Cleanup Team (BCT) Meeting Minutes - Dec 7, 1998	Reilly, C. - Fort Sheridan BEC	12/7/98	Fort Sheridan BCT
6.076	1,3	BRAC Cleanup Team (BCT) Meeting Minutes - Jan 14, 1999	Reilly, C. - Fort Sheridan BEC	1/14/99	Fort Sheridan BCT
7.001	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	Steadman, P.R. - IL EPA	2/7/77	US Army - Fort Sheridan
7.002	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	Child, W.C. - IL EPA	3/16/77	Simpson, LTC US Army - Fort Sheridan
7.003	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	Petrilli, J.F. - IL EPA	12/28/77	Simpson, LTC US Army - Fort Sheridan
7.004	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	IL EPA	2/28/78	US Army - Fort Sheridan
7.005	1	Letter-re: Inspection of Solid Waste Disposal Facility	Petrilli, J.F. - IL EPA	3/14/78	Simpson, LTC, US Army - Fort Sheridan
7.006	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	Wengrow, R. - IL EPA	5/23/78	US Army - Fort Sheridan
7.007	1	Letter-re: Inspection of Solid Waste Disposal Facility	Bechley, K.P. - IL EPA	6/6/78	Simpson - LTC, US Army- Fort Sheridan
7.009	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	IL EPA	1/12/79	US Army - Fort Sheridan
7.010	1	Memorandum-re: Inspection of Fort Sheridan and Discussion of Permit and Closure Requirements	Bechley, K.P. - IL EPA	1/19/79	Division File
7.011	1	Letter-re: Inspection of Solid Waste Disposal Facility	Bechley, K.P. - IL EPA	1/30/79	Franklin, LTC W.H. Jr., US Army - Fort Sheridan, Director of Facilities Engineering
7.012	1	Letter-re: Violations Noted During Inspection of Sanitary Landfill	Franklin, LTC W.H. Jr., US Army - Fort Sheridan, Director of Facilities Engineering	2/28/79	Bechley, K.P., IL EPA
7.013	1	Application for Permit to Operate a Solid Waste Management Site - Wells Ravine Landfill	Director Facilities Engineering	4/4/79	IL EPA

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7.014	1	Letter-re: Permit Application for Wells Ravine Landfill	Franklin, LTC W.H. Jr., US Army - Fort Sheridan, Director of Facilities Engineering	6/21/79	Smith, S.A., IL EPA
		Letter-re: Permit Granted to US Army - Fort Sheridan to Develop a Solid Waste Disposal Site - Wells Ravine Landfill	Cavanagh, T.E. Jr. - IL EPA	9/4/79	Franklin, LTC W.H. Jr., US Army - Fort Sheridan, Director of Facilities Engineering
7.016	1	Letter-re: Development of Solid Waste Disposal Site	Cavanagh, T.E. Jr. - IL EPA	12/19/79	Franklin, LTC W.H. Jr., US Army - Fort Sheridan, Director of Facilities Engineering
7.017	1	Lab Analysis Data from Inspection to Obtain Landfill Operating Permit	Ketchick, J. - Environmental Engineer	4/22/80	Ayers, T.G., IL EPA
7.018	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	JAS, IL EPA	6/11/80	Ketchick, J., US Army - Fort Sheridan
7.019	1	Letter-re: Permit for Wells Ravine Landfill Granted	Cavanagh, T.E. Jr. - IL EPA	6/26/80	Franklin, LTC W.H. Jr., US Army - Fort Sheridan, Director of Facilities Engineering
7.020	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	IL EPA	12/23/80	US Army - Fort Sheridan
		Letter-re: Failure to Submit Groundwater Sampling Results for Landfill Monitoring Program	Piskin, R. - IL EPA	3/4/81	Gerdes, J., US Army - Fort Sheridan
7.021	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	Shane, D. - IL EPA	5/26/81	US Army - Fort Sheridan
7.023	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	Shane, D. - IL EPA	6/5/81	US Army - Fort Sheridan
7.024	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	IL EPA	7/20/81	US Army - Fort Sheridan
7.025	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	IL EPA	9/22/81	US Army - Fort Sheridan
7.026	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	Evans, J. - IL EPA	11/6/81	Ketchick, J., US Army - Fort Sheridan
7.027	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	Bechley, K.P. - IL EPA	12/30/81	Ketchick, J., US Army - Fort Sheridan
7.028	1	Letter-re: Inspection of Landfill	Nechvatal, M.F. - IL EPA	5/28/82	Gerdes, J., US Army - Fort Sheridan
7.029	1	Letter-re: Failure to Submit Groundwater Monitoring Results	IL EPA	6/21/82	US Army - Fort Sheridan
7.030	1	Inspection Report, Solid Waste Landfill, Fort Sheridan	Nechvatal, M.F. - IL EPA	8/24/83	Gerdes, J., US Army - Fort Sheridan
7.031	1	Letter-re: Failure to Submit Groundwater Monitoring Results	Nechvatal, M.F. - IL EPA	11/3/83	Gerdes, J., US Army - Fort Sheridan
7.032	1	Letter-re: Failure to Submit Groundwater Monitoring Results	Haney, M.A., IL EPA	2/7/84	Gerdes, J., US Army - Fort Sheridan
7.033	1	Letter-re: Failure to Submit Groundwater Monitoring Results	Haney, M.A., IL EPA	9/19/84	Gerdes, J., US Army - Fort Sheridan
7.034	1	Letter-re: Non-Compliance of the Monitoring Program	Haney, M.A., IL EPA		
		Letter-re: Finalization of Groundwater Monitoring Requirements for Fort Sheridan-Wells Ravine Landfill	Nechvatal, M.F. - IL EPA	3/15/85	Dean, LTC D.A., Director of Facilities Engineering
7.036	1	Letter-re: Initiation of Modification of Groundwater Monitoring System	Dean, LTC D.A. - Director of Engineering and Housing	4/3/85	Davis, S., IL EPA
7.037	1		Brill, J.S., Director of Engineering and Housing	5/6/86	Haney, M., IL EPA
7.038	1	Letter-re: Groundwater Sampling Using Leachate at Landfill	Dougherty, LTC M.F. - DEH	4/81-6/86	Piskin, R., IL EPA
		Quarterly Analysis Reports for Water Monitoring Program on Landfill Closure - April 1981 thru June 1986	Marvel, T.J. - IL EPA	4/14/88	US Army Fort Sheridan
7.038.1	1	Inspection Report Solid Waste Landfill Fort Sheridan Memorandum-re: Landfill Closure Certification Inspection for Wells Ravine Landfill	Marvel, T.J. - IL EPA	5/17/88	Savage, G., IL EPA
7.039	1		Boyle, J.M. - IL EPA	5/20/88	Talbot, D.L., LTC - Fort Sheridan
7.040	1	RCRA Inspection of Fort Sheridan	Talbot, D.L. - DEH		
7.041	1	Letter-re: Response to Compliance Inquiry Letter Concerning Landfill	Talbot, LTC D.L. - DEH	6/21/88	Savage, G.D., IL EPA

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DOC NO	AR*	DOCUMENT TITLE	AUTHOR	DATE	RECIPIENT
7.043	1	Memorandum-re: Current Status of Monitoring Requirements for Landfill	Rogers, K. - IL EPA	12/8/88	Division File
7.044.11.1	1	Letter-re: Current Actions taken for Closure of Landfill 7	Reilly, C.-BEC, and Schultz, Mark - Navy PWC	11/28/95	Kallis, Chris - IL EPA
8.001.1	1	Memorandum-re: Status of Vinyl Chloride Assessment	Cogliano, James - USEPA	9/29/89	Den, Arnold - USEPA, Region 9
8.004.0.1	1	Letter-re: Report on Gas Vent Liquids Sampling Landfill 7	Schultz, Mark - U.S. Navy Public Works Center	3/31/95	Reilly, C. - Fort Sheridan BEC
8.004.0.2	1	Letter-re: Gas Vent Liquids Sampling Landfill 7	Reilly, C., Fort Sheridan BEC	4/25/95	Schulz, Mark - U.S. Navy Public Works
8.004.0.3	1	Letter-re: Landfill 7 Seep Repair	Rave, Peter A. - USACE	6/12/95	Saltzman, Rob - Ecology Services, Inc.
8.005.1	1	Final Report Outdoor Sampling Landfill 7	USACHPPM	7/1/95	
8.006	1	Addendum, Indoor Air Quality Study and Odor Investigation Landfill 7	USACHPPM	7/1/95	Reilly, C. - Fort Sheridan BEC
8.007	1	Letter-re: Draft Indoor Air Quality Study and Odor Investigation Report	Reilly, C. - Fort Sheridan BEC	10/20/95	Schulz, Mark - U.S. Navy Public Works Center
8.008	1	Memorandum-re: Final Report Outdoor Sampling Landfill 7, July - August 1995	Lee, Maj. Arthur P.	4/30/96	Reilly, C. - Fort Sheridan BEC
9.002	1,3,4,5	Illinois List of Endangered and Threatened Vertebrate Species	Illinois Department of Conservation	1978	Administrative Order
10.014	3,4,5	Fort Sheridan Concept Plan - Overview	Johnson Johnson & Roy/Inc.	9/30/94	The Fort Sheridan Joint Planning Committee
10.015	1,3,4,5	Fact Sheet: Environmental Program, Fort Sheridan, Illinois	US AEC	1/6/95	Fort Sheridan Restoration Advisory Board
10.015.0	1,3,4,5	Fact Sheet: Restoration Advisory Board	US Army Fort Sheridan BRAc Office	Jan. 1995	
10.016	1,3,4,5	Summary of the January 17, 1995 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	1/31/95	Fort Sheridan Restoration Advisory Board
10.017	3,4,5	Letter-re: Conceptual Land Use Plan Completion	Johnson, P.W. - Deputy Assistant Secretary of the Army	2/3/95	King, K., Joint Planning Committee Executive Administrator, Fort Sheridan
10.019	1,3,4,5	Summary of the February 21, 1995 Restoration Advisory Board meeting	Reilly, C. - Fort Sheridan BEC	3/13/95	Fort Sheridan Restoration Advisory Board Members
10.022	1,3,4,5	Summary of the March 28, 1995 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	4/11/95	Fort Sheridan Restoration Advisory Board Members
10.023	1,3,4,5	Summary of the April 18, 1995 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	5/5/95	Fort Sheridan Restoration Advisory Board Members
10.024	1,3,4,5	Summary of the May 16, 1995 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	6/6/95	Fort Sheridan Restoration Advisory Board Members
10.025	1,3,4,5	Summary of the June 20, 1995 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	7/6/95	Fort Sheridan Restoration Advisory Board Members
10.026	1,3,4,5	Summary of the July 18, 1995 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	8/2/95	Fort Sheridan Restoration Advisory Board Members

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10.027	1,3,4,5	Revised Summary of the August 15, 1995 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	9/6/95	Fort Sheridan Restoration Advisory Board Members
10.028	1,3,4,5	Quarterly Newsletter: Environmental Update, Issue #1 - Fort Sheridan	U.S. Army, Fort Sheridan	Fall, 1995	Fort Sheridan Restoration Advisory Board Members
10.029	1,3,4,5	Summary of the September 19, 1995 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	10/3/95	Fort Sheridan Restoration Advisory Board Members
10.030	1,3,4,5	Updated Final: Community Relations Plan (CRP) Fort Sheridan, Illinois (see shelf for report)	Dames & Moore, Inc. (Updated by Fort Sheridan BRAC Office	10/1/95	USAEC
10.031	1,3,4,5	Summary of the October 24, 1995 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	11/10/95	Fort Sheridan Restoration Advisory Board Members
10.032	1,3,4,5	Newsletter: Environmental Update	PW/CEFA Environmental Office, Great Lakes	11/10/95	Fort Sheridan Restoration Advisory Board Members
10.033	1,3,4,5	Summary of the December 7, 1995 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	12/21/95	Fort Sheridan Restoration Advisory Board Members
10.034	1,3,4,5	Quarterly Newsletter: Environmental Update, Issue #2 - Fort Sheridan	U.S. Army, Fort Sheridan	Winter 1995	Fort Sheridan Restoration Advisory Board Members
10.035	1,3,4,5	Summary of the January 9, 1996 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	1/30/96	Fort Sheridan Restoration Advisory Board Members
10.036	1,3,4,5	Newsletter: Environmental Update	PW/CEFA Environmental Office, Great Lakes	2/1/96	Fort Sheridan Restoration Advisory Board Members
10.037	2,5	Public Notice-Re: UXO Time Critical Removal Action	Garcia, Josephine	3/25/96	
10.038	2,5	Letter-re: Ordnance Removal at Fort Sheridan, IL	Reilly, C. - Fort Sheridan BEC	3/26/96	Local Residents
10.039	2,5	Fact Sheet: Ordnance Survey and Removal 38-Acre Former Firing Range	U.S. Army, Fort Sheridan	3/26/96	Fort Sheridan Restoration Advisory Board Members
10.040	1,3,4,5	Summary of the February 20, 1996 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	4/2/96	Fort Sheridan Restoration Advisory Board Members
10.041	1,3,4,5	Quarterly Newsletter: Environmental Update, Issue #3 - Fort Sheridan	U.S. Army, Fort Sheridan	Spring 1996	Fort Sheridan Restoration Advisory Board Members
10.042	1,3,4,5	Updated Summary of the March 19, 1996 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	4/9/96	Fort Sheridan Restoration Advisory Board Members
10.043	1,3,4,5	Summary of the April 23, 1996 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	5/16/96	Fort Sheridan Restoration Advisory Board Members
10.044	1,3,4,5	Summary of the May 28, 1996 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	6/10/96	Fort Sheridan Restoration Advisory Board Members
10.045	1	Fact Sheet: Excavation Alternative - Landfills 6 & 7 Interim Action	U.S. Army - Fort Sheridan	July 1996	Rooney, M. - Highland City Administrator; Limardi, D. - Highland Park City Manager; Kieley, R. - Lake Forest City Manager
10.046	1	Letter-re: Copy of Focused Feasibility Study for Landfills 6 & 7	Reilly, C. - Fort Sheridan BEC	7/8/96	

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Fort Sheridan
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6/30/99

DOC NO	AR*	DOCUMENT TITLE	AUTHOR	DATE	RECIPIENT
10.047	1,3,4,5	Summary of the June 18, 1996 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	7/11/96	Fort Sheridan Restoration Advisory Board Members
10.048	1	Fact Sheet: Landfills 6 & 7 Cleanup Action	U.S. Army - Fort Sheridan	Aug. 96	
10.049	1	Public Notice-Re: Announcement of Proposed Plan/Comment Period for Landfills 6 & 7	U.S. Army, Fort Sheridan	8/7/96	
10.050	1	Oral Comments from Public Meeting-re: LF 6 & 7 Preferred Alternative Plan	Sonntag Reporting Service, Ltd.	8/21/96	Fort Sheridan Restoration Advisory Board
10.051	1,3,4,5	Summary of the July 24, 1996 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	9/4/96	Fort Sheridan Restoration Advisory Board Members
10.053	1	Public Comments on the Proposed Plan Landfills 6 and 7	U.S. Army, Fort Sheridan	9/7/96	Fort Sheridan Restoration Advisory Board Members
10.055	1,3,4,5	Summary of the September 25, 1996 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	10/15/96	Fort Sheridan Restoration Advisory Board Members
10.056	1,3,4,5	Summary of the October 23, 1996 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	11/11/96	Fort Sheridan Restoration Advisory Board Members
10.057	1,3,4,5	Quarterly Newsletter: Environmental Update, Issue #4 - Fort Sheridan	U.S. Army, Fort Sheridan	Nov. 1996	Fort Sheridan Restoration Advisory Board Members
10.058	1,3,4,5	Summary of the November 20, 1996 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	12/9/96	Fort Sheridan Restoration Advisory Board Members
10.059	1,3,4,5	Summary of the December 18, 1996 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	1/8/97	Fort Sheridan Restoration Advisory Board Members
10.060	1,3,4,5	Summary of the January 22, 1997 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	2/5/97	Fort Sheridan Restoration Advisory Board Members
10.061	1,3,4,5	Summary of the February 26, 1997 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	3/17/97	Fort Sheridan Restoration Advisory Board Members
10.061.5	1,3,4,5	Quarterly Newsletter: Environmental Update, Issue #5 - Fort Sheridan	U.S. Army, Fort Sheridan	Mar. 1997	
10.062	1,3,4,5	Summary of the March 26, 1997 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	4/11/97	Fort Sheridan Restoration Advisory Board Members
10.063	1,3,4,5	Summary of the April 23, 1997 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	5/21/97	Fort Sheridan Restoration Advisory Board Members
10.064	1,3,4,5	Summary of the May 28, 1997 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	7/9/97	Fort Sheridan Restoration Advisory Board Members
10.065	4	Public Notice-Re: Announcement of Landfill 3 & 4 Proposed Plan	U.S. Army, Fort Sheridan	7/21/97	
10.066	1	Public Notice-Re: Cleanup Decision for Fort Sheridan Landfills 6 & 7	U.S. Army, Fort Sheridan	8/18/97	
10.067	1	Fact Sheet: Cleanup Action at Landfills 6 & 7 Initial Construction Activities	U.S. Army, Fort Sheridan	Aug. 1997	Fort Sheridan Restoration Advisory Board Members
10.068	1,3,4,5	Summary of the July 23, 1997 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	8/18/97	Fort Sheridan Restoration Advisory Board Members

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10.069	1,3,4,5	Quarterly Newsletter: Environmental Update, Issue #6 - Fort Sheridan	U.S. Army, Fort Sheridan	Sept. 1997	Fort Sheridan Restoration Advisory Board
10.070	1,3,4,5	Summary of the August 27, 1997 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	9/15/97	Fort Sheridan Restoration Advisory Board Members
10.071	1,3,5	Summary of the September 24, 1997 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	10/15/97	Fort Sheridan Restoration Advisory Board Members
10.072	4	Public Notice-Re: Cleanup Decision for Fort Sheridan Landfills 3 & 4	U.S. Army, Fort Sheridan	11/10/97	
10.073	3	Fact Sheet: Former Coal Storage Area and Blacksmith's Shop Proposed Cleanup Actions	U.S. Army, Fort Sheridan	Nov. 1997	
10.074	3	Summary of the October 22, 1997 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	11/19/97	Fort Sheridan Restoration Advisory Board Members
10.075	3	Public Notice-Re: Cleanup Proposal for Former Coal Storage Area and Blacksmith's Shop	U.S. Army, Fort Sheridan	11/26/97	
10.076	3,5	Summary of the December 4, 1997 Restoration Advisory Board Meeting	Reilly, C. - Fort Sheridan BEC	1/12/98	Fort Sheridan Restoration Advisory Board Members
10.077	3,5	Summary of the February 4, 1998 Restoration Advisory Board Meeting	Reilly, C.- Fort Sheridan BEC	3/4/98	Fort Sheridan Restoration Advisory Board Members
10.078	1,3,5	Summary of the March 24, 1998 Restoration Advisory Board Meeting	Reilly, C.- Fort Sheridan BEC	5/28/98	Fort Sheridan Restoration Advisory Board Members
10.078.1	1,3,5	Summary of the May 28, 1998 Restoration Advisory Board Meeting	Reilly, C.- Fort Sheridan BEC	6/10/98	Fort Sheridan Restoration Advisory Board Members
10.079	3,5	Public Notice- RE: Army Proposes No Cleanup Required for Fort Sheridan Ravines and Beach Area Study Areas	U.S. Army, Fort Sheridan	6/11/98	Fort Sheridan Restoration Advisory Board Members
10.080	1,3,5	Summary of the June 17, 1998 Restoration Advisory Board Meeting	Reilly, C.- Fort Sheridan BEC	7/14/98	Fort Sheridan Restoration Advisory Board Members
10.081	1,3,5	Summary of the July 21, 1998 Restoration Advisory Board Meeting	Reilly, C.- Fort Sheridan BEC	9/9/98	Fort Sheridan Restoration Advisory Board Members
10.082	3	Public Notice- RE: Army Announces No Cleanup Required for Ft. Sheridan Ravines and Beach Area Study Areas	U.S. Army- Fort Sheridan	10/15/98	Fort Sheridan Restoration Advisory Board Members
10.082.1	1,3,5	Summary of the September 28, 1998 Restoration Advisory Board Meeting	Reilly, C.- Fort Sheridan BEC	10/28/98	Quafishkeh, Nabil, Lab Supervisor, City of Highland Park
10.083	1,3	Letter to Highland Park Water Treatment Plant, RE: Artillery Ranges and drinking water	Reilly, C.- Fort Sheridan BEC	11/2/98	
10.084	1,3	Letter to Steven Pollack, RE: USEPA's Preliminary Assessment, Ft. Sheridan Artillery Ranges	Muno, William, U.S. Environmental Protection Agency	12/15/98	Pollack, Steven
10.085	1,3,5	Summary of the November 5, 1998 Restoration Advisory Board Meeting	Reilly, C.- Fort Sheridan BEC	12/16/98	Fort Sheridan Restoration Advisory Board Members

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Draft Administrative Record

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DOC NO	AR*	DOCUMENT TITLE	AUTHOR	DATE	RECIPIENT
10.086	3	Public Notice- RE: Army Announces No Cleanup Required for Ft. Sheridan Landfill 2/Small Arms Range/38-acre Parcel Fill Area Study Areas	U.S. Army- Fort Sheridan	2/25/99	Fort Sheridan Restoration Advisory Board
10.087	1.3	Summary of the January 14, 1999 Restoration Advisory Board Meeting	Reilly, C.- Fort Sheridan BEC	2/17/99	Fort Sheridan Restoration Advisory Board Members
10.088	1.3	Summary of the March 3, 1999 Restoration Advisory Board Meeting	Reilly, C.- Fort Sheridan BEC	4/8/99	Fort Sheridan Restoration Advisory Board Members
10.089	1.3	Summary of the April 27, 1999 Restoration Advisory Board Meeting	Reilly, C.- Fort Sheridan BEC	5/19/99	Fort Sheridan Restoration Advisory Board Members
11.001	1.3,4,5	Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA (Interim Final)	Office of Emergency and Remedial Response, US EPA	10/1/88	
11.002	1.3,4,5	Guidance on Preparing Superfund Decision Documents: The Proposed Plan, The Record of Decision, Explanation of Significant Differences, The Record of Decision Amendment (Interim Final)	Office of Emergency and Remedial Response, US EPA	7/89	
11.003	1.3,4,5	Influence of Casing Materials on Trace-Level chemical in Well Water	Parker, L.V.; A.D. Hewitt, T.F. Jenkins	Spring 1990	
11.006	1.3,4,5	CERCLA Site Discharges to POTWS-Guidance Manual	US EPA	Aug. 1990	
11.007	1.3,4,5	Technical Policy #14: Soil Volatile Sampling Procedures Guide to Developing Superfund No Action, Interim Action, and Contingency Remedy RODs	Davis, S.; Otto, S.; Reside, G.; Rowe, G.T.; Tin, A.; -IL EPA	12/17/90	Fendick, R., USATHAMA
11.009	1.3,4,5	Executive Order12580, Superfund Implementation	US EPA	April 1991	
11.010	1.3,4,5	Administrative Procedure #26 - Procedure for Determination of a Class II Groundwater	Office of the President	10/22/91	
11.012	1.3,4,5	Superfund Information Repositories and Administrative Records	US EPA	Aug. 1992	
11.013	1.3,4,5	Guidance for Establishing the Basis for Cleanup Objectives	IL EPA	Dec. 1992	
11.014	1.3,4,5	Certification of Adopted Amendments	Illinois Dept. of Public Health	2/1/93	
11.015	1.3,4,5	Administrative Procedure #26 - Procedure for Determination of a Class II Groundwater	Liss, K.; Young, H.; - IL EPA	3/24/93	
11.016	1.3,4,5	Soil Volatile Sampling Procedures	IL EPA	4/15/93	
11.016.1	1	Presumptive Remedy for CERCLA Municipal Landfill Sites	US EPA	Sept. 1993	
11.018	1.3,4,5	Region IX Preliminary Remediation Goals (PRGs) First Half of 1994	US EPA	2/1/94	US AEC
11.019	3,4,5	Memorandum-re: Military Base Closures, Guidance on EPA Concurrence in the Identification of Uncontaminated Parcels under CERCLA Section 120 (h) (4)	Laws, E.P.; - US EPA	4/19/94	
11.020	1,3,4,5	Administrative Procedure #11-Monitor Well Design Criteria	US EPA	12/14/93	

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 - 4 = Landfills 3 OU (Final AR)
 - 5 = Decontaminated OU
 - 6 = Decontaminated OU
 - 7 = Decontaminated OU
 - 8 = Decontaminated OU
 - 9 = Decontaminated OU
 - 10 = Decontaminated OU
 - 11 = Decontaminated OU
 - 12 = Decontaminated OU
 - 13 = Decontaminated OU
 - 14 = Decontaminated OU
 - 15 = Decontaminated OU

Appendix B

Letters of Support Agency Concurrence



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF SRF-5J

April 28, 1999

Colleen Reilly, BRAC Environmental Coordinator
Ft. Sheridan BRAC Office
3155 Blackhawk Drive, Suite 17
Ft. Sheridan, IL 60037-1289

RE: Draft Decision Document for the LF2/SARN/38-Acre Parcel Fill Area
Study Areas of the Surplus Operable Unit, Ft. Sheridan, IL
QST, Environmental, Inc., April 20, 1998

Dear Ms. Reilly:

The United States Environmental Protection Agency (U.S. EPA) has completed its review of the subject document. The Agency concurs with the Army's decision that based upon available information and the nine evalution criteria presented in the National Oil and Hazardous Materials Pollution Contingency Plan (The NCP), no remdial action is required in this Sub-Operable Unit.

Please call me at 312 886-4843 if you have any questions.

Sincerely yours,

A handwritten signature in black ink, appearing to read "W. Owen Thompson".

W. Owen Thompson
BRAC Remedial Project Manager

cc: Paul Lake, IEPA



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276

THOMAS V. SKINNER, DIRECTOR

May 6, 1999

Ms. Colleen Reilly
Fort Sheridan BRAC Office
3155 Blackhawk Drive Suite 17
Fort Sheridan, IL 60037-1289

Re: Draft Decision Document for
the LF2/SARN/38-Acre Fill Area

0970555001/Lake
Fort Sheridan (BRAC)
Superfund/Technical

Dear Ms. Reilly:

The Illinois Environmental Protection Agency ("Illinois EPA") received the April 20, 1999 *Draft Decision Document for the LF2/SARN/38-Acre Fill Area Study Areas of the Surplus Operable Unit*, on April 21, 1999. This document was prepared by QST Environmental on behalf of the Fort Sheridan BRAC Office and the U.S. Army Environmental Center. The Illinois EPA has reviewed the Draft No Action Decision Document and supporting Remedial Investigation\Baseline Risk Assessment. Illinois EPA concurs with the Army's decision that no response action is necessary to ensure the protection of human health and the environment for the Landfill 2/Small Arms Range North/38-Acre Fill Area study areas located within the Surplus Operable Unit at Fort Sheridan.

Should you have any questions regarding this letter, please do not hesitate to contact me at (217) 785-7728.

Sincerely,

Paul T. Lake, Remedial Project Manager
Federal Sites Remediation Section
Bureau of Land

RJL:SDN:h:\fortsh\dddlf2sa.apr

cc: Owen Thompson, USEPA (HSRL-5J)
Ron Jackson, USAEC
Jenny Berman Ross, US Navy - EFA Midwest
Mona Reints, US Army Reserve
Bob Fileccia, USACE-Louisville
Deborah McKinley, QST
Chris Manikas, SAIC

2000 North Milwaukee Avenue, Libertyville, Illinois 60048-1199 Telephone 847/367-6640 Fax 847/367-6649



LAKE COUNTY FOREST PRESERVES

Observation, Restoration, Education and Recreation

March 17, 1999

Ms. Colleen Reilly
BRAC Environmental Coordinator
3155 Blackhawk Drive Suite 17
Fort Sheridan, IL 60037-1289

Dear Colleen:

Thank you for providing the Lake County Forest Preserve District (the "District") with the opportunity to review the *Final Proposed Remedial Action Plan for the Landfill2/SARN/38-Acre Parcel Fill Area of the Surplus Operable Unit, Fort Sheridan, Illinois*, dated March 1, 1999.

The District has reviewed the Final Proposed Remedial Action Plan and has no additional comments or recommendations.

Please do not hesitate to contact me if you have any questions or require additional information.

Sincerely,

Steve
Steven K. Messerli
Executive Director

SKM:jg

cc: Nadine Smith, Realty Specialist
Larry Bakanec, Risk Manager